



**TAMIL NADU DR.J.JAYALALITHAA FISHERIES UNIVERSITY**



## **ANNUAL ACTION PLAN (2019-20)**



**ICAR - KRISHI VIGYAN KENDRA  
SIKKAL – 611 108  
NAGAPATTINAM DISTRICT.  
TAMIL NADU**

**ICAR-Agricultural Technology Application Research Institute**

**ZONE X, Hyderabad**

**ACTION PLAN OF KVKs IN ZONE X FOR 2019-20**

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

- 1.1 Name and address of KVK with Phone, Fax and e-mail : ICAR-Krishi Vigyan Kendra  
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 organization : Tamil Nadu Dr. J. Jayalalithaa Fisheries University  
Nagapattinam-611 001  
Phone: 04365- 240088  
Fax: 91-4365-240088  
Email: [vc@tnfu.ac.in](mailto:vc@tnfu.ac.in)
- 1.3 Year of sanction : 2004
- 1.4 Website address of KVK : [www.kvknagapattinam.com](http://www.kvknagapattinam.com)

## 2. Details of staff as on date:

Sl. No.	Sanctioned post	Name of the incumbent	Discipline/Designation	Pay Scale	Date of joining KVK	Permanent /Temporary
1.	Programme Coordinator	Dr. A. Gopalakannan	Fisheries Biotechnology	39000+9000	04.03.2019	Permanent
2.	Subject matter Specialist	Mr. E. Hino Fernando	Fisheries Extension	56100	03.12.2018	Permanent
3.	Subject matter Specialist	Dr. K. Chandrasekar	Agriculture Entomology	56100	06.12.2018	Permanent
4.	Subject matter Specialist	Dr. S. Muthukumar	Veterinary Science	56100	28.12.2018	Permanent
5.	Subject matter Specialist	Vacant				
6.	Subject matter Specialist					
7.	Subject matter Specialist					
8.	Programme Assistant (Technical)	Mr. V. Gnanabharathi	Agriculture	55800	05.06.2007	Permanent
9.	Programme Assistant (Computer)	Ms. G. Ramya	Computer Application	35400	07.12.2018	Permanent
10.	Farm Manager	Mr. R. Vedharethinam	Agronomy	55800	04.06.2007	Permanent
11.	Assistant	Mr. S. Tamilselvan	Office	26100	05.06.2018	Permanent
12.	Jr. Stenographer	Vacant				
13.	Driver	Mr. S. Prasath	-	18500	07.12.2018	Permanent
14.	Driver	Mr. J. Sathishkumar	-	18500	07.12.2018	Permanent
15.	Supporting staff	Vacant				
16.	Supporting staff					

## 3. Details of SAC meeting conducted during 2018-19: Yes 25.03.2019

Last Date : 25.03.2019  
Tentative date of SAC meeting proposed during 2018-19 : November 2019

#### 4. Capacity Building of KVK Staff

##### 4.1. Plan of Human Resource Development of KVK personnel during 2019-20

S. No	New Areas of Training	Institution proposed to attend	Justification
1	IFS under Rice based cropping system –Wet land	CRRI, Cutack	To improve the professional skills for transfer of technologies for IFS under wetland ecosystem
2	<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
3	Advances in vegetable cultivation	IIHR, Bengaluru, IARI, New Delhi	To know about the recent technologies in vegetable cultivation
4	Advances in Horticultural technologies	IIHR, Bangalore	To know about the recent technologies in Horticulture
5	Food processing industry application techniques	IICPT, Thanjavur	To develop the food processing technologies in Fruits ,cereals ,millets and vegetables
6	Professional skills for trainers of extension institutes of Agriculture	MANAGE, Hyderabad	To improve the professional skills for transfer of technologies
7	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
8	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
9	Good Management practices for arid horticulture crops to combat current Agrarian Crisis	ICAR-Central Institute for Arid Horticulture (CIAH), Bikaner	To enrich the knowledge on arid horticulture crops
10	Advances in Banana cultivation	NRCB, Trichy	To enrich the knowledge on advances in Banana cultivation
11	Advances in fish rearing	TNJFU, Nagapattinam	To enrich the knowledge on advances in fish rearing techniques
12	ICT application for Technology transfer	MANAGE, Hyderabad	To aquanaut with recent developments in ICT enabled extension

#### 4.2. Cross-learning across KVKs during 2019-20

S. No	Name of the KVK proposed	Specific learning areas
1	<b>Within ring:</b> KVK, Dharmapuri & KVK, Kattupakkam	To learn about technological products & To learn about IFS
2	<b>Within the zone -</b> KVK, Nellore	To learn about technological products
3	<b>Outside zone -</b> 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, Dharmapuri	Aquaculture and ornamental fish culture	Demo units
5.3	KVK, Kattupakkam	Integrated Farming System and Goat farming	Demo units on Goat, Poultry and Fishery

#### 6. Operational areas details proposed during 2019-20

District*/Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identifies in each crop/enterprise	Proposed type of interventions (OFT/ FLD/ Training/ Field day/ Method demonstrations/ Awareness camp)
Sembanarkovil	Keelaiyur	Rice, Pulses, Banana, Forestry, livestock and fish	Low weight gain of bird Lack of awareness of Desi bird rearing. Low income of rural youth entrepreneurs. Slow growth rate of carps Short duration of water availability Lack of awareness of Tilapia culture Low income of rural youth entrepreneurs.	OFT-IPM of Fall Army Worm ( <i>Spodoptera fugiperda</i> ) on Maize  OFT-Assessment of production performance of improved aseel and kadaknath poultry breed under back yard system of rearing  OFT-Demonstration of Mixed fodder Cultivation (Grasses, Cereal, Pulse & Tree Fodder)  FLD-Demonstration of Newly released rice variety ADT 53 in Nagapattinam District

			<p>Low due to existing local variety Unawareness of new variety. Heavy infestation of Smut disease Yield reduced 25%.</p>	<p>FLD-Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt. FLD-Demonstration of Newly released Greengram variety VBN 4 in Nagapattinam District FLD-Demonstration IDM strategies for False smut in Rice FLD-Demonstration on Eco friendly IPM strategies for major Sucking pests in cotton FLD-Demonstration on IDM strategies for major Diseases in Banana. FLD-Popularization of Scientific Rearing of Japanese Quail among rural farmers (Packages and Practices ) FLD-Demonstration of Hydroponics fodder cultivation technology to rural farmer</p>
Vatharanyam	Pushbavanam	Rice, vegetables and Ground Nut, coconut, Flowers, Forestry, livestock and fish.	<p>Low yield of existing groundnut variety under rainfed condition. Slow growth rate of carps Short duration of water availability Lack of awareness of Tilapia culture Low income of rural youth entrepreneurs. Larger coconut plantation areas were affected by pests. Severe incidence Yield reduction up to 25%. Jasmine-Severe incidence of sucking pests.</p>	<p>OFT-Assessment of drought tolerant groundnut varieties under rainfed condition  FLD-Demonstration of Saline tolerant rice varieties for Nagapattinam District FLD-Demonstration on Eco friendly IPM strategies for major pests in Coconut FLD-Demonstration on Eco friendly IPM strategies for major pests in Jasmine FLD-Demonstration of Azolla cultivation to rural farmers</p>
Thalainayar	Vellappallam	Ground Nut, Vegetables, Mango, Coconut, livestock and fish	<p>Low yield of existing groundnut variety under rainfed condition. Low yield of pulp content in existing variety</p>	<p>OFT-Assessment of drought tolerant groundnut varieties under rainfed condition.  OFT-Assessment of production performance of improved aseel and kadaknath poultry breed under back yard system of</p>

			<p>Lack of technical knowledge in preparation of tomato products.</p> <p>Low weight gain of bird</p> <p>Lack of awareness of Desi bird rearing.</p> <p>Low income of rural youth entrepreneurs.</p> <p>Lack of awareness about mixed fodder crops.</p> <p>Poor green feeding/ Nutritionally Inferior grass feeding.</p> <p>Low due to existing local variety</p> <p>Unawareness of new variety.</p> <p>Yield reduction due to saline problem</p> <p>Use of Saline water for irrigation</p> <p>Larger coconut plantation areas were affected by pests.</p> <p>Severe incidence</p> <p>Yield reduction up to 25%.</p> <p>Jasmine-Severe incidence of sucking pests.</p> <p>Poor crop establishment.</p> <p>yield reduction up to 25%</p> <p>Lack of awareness of Agro forestry concept</p> <p>Failure of monocrop due to nature calamities</p> <p>Less income generation opportunity in monocrop cultivation.</p> <p>Lack of awareness of Quail culture</p> <p>Low income of the rural women.</p>	<p>rearing</p> <p>FLD-Demonstration of Saline tolerant rice varieties for Nagapattinam District</p> <p>FLD-Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt.</p> <p>FLD-Demonstration on Eco friendly IPM strategies for major pests in Coconut</p> <p>FLD-Demonstration on Eco friendly IPM strategies for major pests in Jasmine</p>
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Nagapattinam	Ponveli	Rice, Pulses, Forestry, livestock and fish	<p>Low yield of pulp content in existing variety</p> <p>Lack of technical knowledge in preparation of tomato products.</p> <p>Low due to existing local variety</p> <p>Unawareness of new variety.</p> <p>Lack of awareness of Agro forestry concept</p> <p>Failure of monocrop due to nature calamities</p> <p>Less income generation opportunity in monocrop cultivation.</p> <p>Lack of awareness of Quail culture</p> <p>Low income of the rural women.</p>	<p>FLD-Demonstration of Newly released rice variety ADT 53 in Nagapattinam District</p> <p>FLD-Demonstration of Newly released rice variety VGT 1 in Nagapattinam District</p> <p>FLD-Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy</p> <p>FLD-Demonstration of Newly released Greengram variety VBN 4 in Nagapattinam District</p> <p>FLD-Demonstration IDM strategies for False smut in Rice</p> <p>FLD-Classical model on multifunctional agroforestry for small and marginal farmers</p> <p>FLD-Popularization of Scientific Rearing of Japanese Quail among rural farmers</p> <p>FLD-Demonstration of Hydroponics fodder cultivation technology to rural farmer</p> <p>FLD-Demonstration of seed production technology of Gold Fish in cement tanks</p>
Kilvelur	Agarakadambanur	Rice, Pulses, Vegetable, livestock and fish	<p>Low weight gain of bird</p> <p>Lack of awareness of Desi bird rearing.</p> <p>Low income of rural youth entrepreneurs.</p> <p>Lack of awareness about mixed fodder crops.</p> <p>Poor green feeding/ Nutritionally inferior grass feeding.</p> <p>Slow growth rate of carps</p> <p>Short duration of water availability</p> <p>Lack of awareness of Tilapia culture</p> <p>Low income of rural youth entrepreneurs.</p>	<p>OFT-Assessment of drought tolerant groundnut varieties under rainfed condition</p> <p>OFT-Demonstration of Mixed fodder Cultivation (Grasses, Cereal, Pulse &amp; Tree Fodder)</p> <p>FLD-Demonstration of Newly released rice variety ADT 53 in Nagapattinam District</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 Newly released Greengram variety VBN 4 in Nagapattinam District</p> <p>FLD-Classical model on multifunctional agroforestry for small and marginal farmers</p>



			<p>Low due to existing local variety Unawareness of new variety. Heavy infestation of Smut disease Yield reduced 25%. Severe incidence Yield reduction up to 25%. Lack of awareness of Quail culture Low income of the rural women.</p>	<p>FLD-Popularization of Scientific Rearing of Japanese Quail among rural farmers (Packages and Practices ) FLD-Demonstration of Hydroponics fodder cultivation technology to rural farmer FLD-Demonstration of Azolla cultivation to rural farmers FLD-Demonstration of seed production technology of Gold Fish in cement tanks</p>
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### 7. Technology Assessment during 2019-20

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	Millets-Maize	Severe outbreak of Fall Army Worm in Maize	Assessment on IPM of Fall Army Worm <i>Spodoptera fugiperda</i> on Maize	TO1: Farmers' Practice						5	24750	Percent plant infestation – damage level.  Yield (Kg/Ha), Costs and returns, BC ratio	SMS(Agri. Ento), P.A. Tech & PC
				TO2: Integrated Pest Management (IPM) Module.	ICAR								
					Seed treatment chemical	40 ml	200						
					<i>Metarhizium anisopliae</i>	1 lt	600						
					Pheromone traps	4 nos	400						
					Fodder seeds	100g	50						
					Neem soap	1 Kg	200						
	Need based insecticides	-	1000										
<b>Total</b>								<b>4950</b>	<b>5</b>	<b>24750</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	Oil Seeds-Ground Nut	Low yield of existing groundnut variety under rainfed condition	Assessment of drought tolerant groundnut varieties under rainfed condition	TO1:farmers Practice	-	-	-	-	5		No. of pods/plant Yield Economics	SMS(Agri. Ento) & P.A. Tech and PC
				TO2: K 9 Seeds (kernal) @120 Kg/ha	IOR	K9 Seed	40 kg (Pods)	3,600				
				TO3: TMV 14 – Seeds (kernal) @120 Kg/ha	TNAU	TMV 14 Seed	40 kg (Pods)	3,600				
<b>Total</b>								<b>7200</b>	<b>5</b>	<b>36000</b>		

S. No.	Crop/ enter prise	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-Bhendi	Lesser productivity of existing private hybrids. Yield loss due to Yellow Vein Mosaic Virus up to 30 %	Assessment of Performance of Bhendi hybrids in Nagapattinam district	TO1:Farmers Practice				1 kg	2,000	5	25000	Plant height. No. of harvests. Fruits per plant. Yield per ha BCR	SMS(Agri. Ento), P.A. Tech & PC	
				TO2: Hybrid CO 4	(TNAU, 2016)	Co 4 Seeds								
				TO3: Arka Nikita	(IIHR, 2017)	Arka Nikita Seeds	1 kg							2,500
						Arka Vegetable Special	2 kg							500
<b>Total</b>								<b>50000</b>	<b>5</b>	<b>25000</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	Fodder crop	Low production of milk Non availability of fodder crop in Nagapattinam district	Assessment of Effect on Mixed Fodder bank on livestock productivity	TO 1- Farmer's practice					5	10300	Milk yield. Palatability . BCR. Yield. Economics	SMS(Veterinary) and PC
				TO2: Mixed fodder crop	TNAU	Co FS 31 seed	0.125 kg	50				
						Co (BN) 5 cuttings	1200 Nos	720				
						Hedge lucerne (CO 1)	0.6 Kg	330				
						Agathi	0.075 Kg	30				
						Subabul	0.075 Kg	30				
						Other Expenses	-	900				
<b>Total</b>								<b>2060</b>	<b>5</b>	<b>10300</b>		

7.5	Fishes	Slow growth rate of carps Short duration of water availability Lack of awareness Low income	Evaluation of growth performance of Red Tilapia and GIFT Tilapia in farm ponds.	TO1- Farmers Practice					2	78000	Growth performance. Survival rate. Yield.	SMS(Fisheries Extn.) & PC
				TO2: Red Tilapia	TNJFU	Fish seed	900 nos	4500				
				TO3: GIFT Tilapia	TNJFU	Fish seed	900 nos	4500				
						Fish feed	750 kg	30000				
<b>Total</b>								<b>39000</b>	<b>2</b>	<b>78000</b>		

## 8. Technology Refinement during 2019-20: NIL

### 9. Frontline Demonstrations during 2019-20

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	Paddy	Low due to existing local variety.  Unawareness of new variety	Demonstration of Newly released rice variety ADT 53 in Nagapattinam District	Variety	ADT 53	TNAU	Seed @ 60 kg/ha	24 Kg	900	20	20400	Productive tillers/ m <sup>2</sup> Yield Economics	SMS(Agri Ento), P.A Tech & PC
								<i>Pseudomonas</i>	1 Kg	120				
<b>Total</b>									<b>1020</b>	<b>20</b>	<b>20400</b>			
9.2	Cereals	Paddy	Low due to existing local variety.  Unawareness of new variety	Demonstration of Newly released rice variety VGT 1 in Nagapattinam District	Variety	VGT 1	TNAU	Seed @ 40 kg/ha	16 Kg	640	20	15200		-
								<i>Pseudomonas @ 2.5 kg/ha</i>	1 Kg	120				
<b>Total</b>									<b>760</b>	<b>20</b>	<b>15200</b>			
9.3	Cereals	Paddy	Yield reduction due to saline problem.  Use of Saline water for irrigation	Demonstration of Saline tolerant rice variety CSR 36 for Nagapattinam District	Variety	CSR 36	CSSRI	Seed @ 40 kg/ha	16 Kg	1200	10	13200	EC, pH of initial soil. Plant height (cm). No. of panicles/m <sup>2</sup> . Yield (Q/ha). Economics.	PC & P.A Tech
								<i>Pseudomonas</i>	1 Kg	120				
<b>Total</b>									<b>1320</b>	<b>10</b>	<b>13200</b>			

9.4	Cereals	Paddy	Reduction in natural enemies due to indiscriminate use of pesticides.  Lack of knowledge on eco friendly pest and disease management strategies	Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy	Variety	BPT 5204	CRRRI	Seed treatment with <i>Pseudomonas fluorescens</i> @ 10 gm/kg	100 gm each	500	10	31000	P:D ratio (Pest and Defenders), Pest Infestation Percentage, Types and number of natural enemies, Yield, Economics	SMS(Agri Ento), P.A Tech & PC
								Border crops - Gingelly, sunflower, daincha, cowpea, marigold	5 kg	600				
								Spray fresh cow dung extract 20%	5 Nos.	500				
								Pheromone traps @12/ha.	500 ml	300				
								Sucking pests Azadirachtin (10,000 ppm) @ 1.25 lit/ ha.	2 kg	600				
								Stemborer & LF – <i>Beuveria bassiana</i> @ 5kg/ha.	2 kg	600				
								BPH - <i>Lecanicillium lecanii</i> @ 5 kg/ha.						
								<b>Total</b>	<b>3100</b>	<b>3100</b>				

9.5	Cereals	Paddy	Heavy infestation of Paddy.  Yield reduced 25%	Demonstration IDM strategies for False smut in Rice	Variety	BPT 5204	TNAU	<i>Pseudomonas</i> @ 2.5 kg/ha	1 kg	120	10	12400	Disease incidence, Productive tillers/ m <sup>2</sup> Yield Economics	SMS(Agri Ento), P.A Tech & PC
								Propiconazole @ 1250 ml/ha	500 ml	500				
<b>Total</b>									<b>620</b>		<b>20</b>	<b>12400</b>		

9.6	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	V B N 8	TNAU 2016	Black gram seeds	10 kg	1500	10	24000	No of plants/m <sup>2</sup> . No of pods/plant Yield. (Q/Ha) Economics	SMS(Agri Ento), P.A Tech & PC
								Rhizobium	1 kg	100				
								<i>T. viride</i>	1 kg	100				
								Pulses wonder	2 kg	400				
								Yellow sticky trap	5 No.	300				
<b>Total</b>									<b>2400</b>		<b>10</b>	<b>24000</b>		

9.7	Pulses	Green Gram	Low due to existing local variety.  Unawareness of new variety.	Demonstration of Newly released Green gram variety VBN 4 in Nagapattinam District	Variety	VBN 4	TNAU 2018	Black gram seeds	10 kg	1500	10	24000	No of plants. No of pods/plant Yield. (Q/Ha) Economics	SMS(Agri Ento), P.A Tech & PC
								Rhizobium	1 kg	100				
								<i>T. viride</i>	1 kg	100				
								Pulses wonder	2 kg	400				
								Yellow sticky trap	5 No.	300				
<b>Total</b>										<b>2400</b>	<b>10</b>	<b>240000</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	Fiber crop	Cotton	Severe incidence of sucking pests.  Poor crop establishment. yield reduction up to 25%	Demonstration on Eco friendly IPM strategies for major Sucking pests in cotton	Hybrid	RCH	TNAU	Azadiractin	1 lit	700	10	14000	% pest reduction (sucking pest) Yield Economics	SMS(Agri Ento), P.A Tech & PC
								Yellow sticky trap	5 Nos.	300				
								<i>Verticillium lecanii</i>	2 Kg	400				
<b>Total</b>									<b>1400</b>	<b>10</b>	<b>14000</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
9.9	Plantation crop	Coconut	Larger plantation areas were affected by Pests.	Demonstration on Eco friendly IPM strategies for major pests in Coconut	Variety	ECT	TNAU	<i>Metarrhizium anisopliae</i>	1lit	300	10	16500	% pest reduction Yield Economics	SMS(Agri Ento), P.A Tech & PC
								Rhino lure pheromone trap	3	900				
								Ferrolure pheromone trap	1	450				
<b>Total</b>									<b>1650</b>	<b>10</b>	<b>16500</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	Fruits	Banana	Severe incidence Yield reduction up to 25%	Demonstration on IDM strategies for major Diseases in Banana	Variety	Poovan	TNAU	<i>Pseudomonas fluorescens</i>	1	120	10	25200	% Disease reduction. Yield. Economics	SMS(Agri Ento), P.A Tech & PC
								<i>Trichoderma viride</i>	10 kg	1200				
								Carbofuran	10 Kg	1200				
<b>Total</b>									<b>2520</b>	<b>10</b>	<b>25200</b>			

9.11	Flowers	Jasmine	Severe incidence of sucking pests.  Poor crop establishment. yield reduction up to 25%	Demonstration on Eco friendly IPM strategies for major pests in Jasmine	Variety	Local	TNAU	<i>Bacillus thuringiensis</i>	400 g	500	10	16200	% pest reduction (sucking pest).  Yield Economics	SMS(Agri Ento), P.A Tech & PC
								<i>Trichoderma viride</i>	1kg	120				
								Azadiractin	1 lit	700				
								Yellow sticky trap	5 Nos	300				
<b>Total</b>									<b>1620</b>	<b>10</b>	<b>16200</b>			



9.12	Agro Forestry	Agro Forestry	Lack of awareness of Agro forestry concept.  Failure of monocrop due to nature calamities.  Less income generation opportunity monocrop cultivation	Demonstration of classical model on multifunctional agroforestry for small and marginal farmers	Variety	-	TNAU	Co 5 Slips	4000	2000	2	24100	Economics & BCR	SMS(Veterinary), SMS(Agri Ento) and PC
								Vegetables seeds	-	1000				
								Jasmine	100 plants	3000				
								Moringa	500 g	1500				
								Amla	50 Nos	1350				
								Rosewood	50 Nos	1500				
								Guava	50 Nos.	1500				
								Agathi	250 g	200				
<b>Total</b>								<b>12050</b>	<b>2</b>	<b>24100</b>				

9.13	Livestock	Quail	Lack of awareness of Quail culture.  Low income of the rural women.	Demonstration of Scientific Rearing of Japanese Quail among rural farmers (EDP)	Variety	Namakkal	TANUVAS	Purchase of Namakkal quail Chicks	1000 nos	1400	5	45800	Growth parameter Yield Economics	SMS(Veterinary) and PC
								Feed	600 kg	3960				
								Brooding	2000	2000				
								Medical care	Rs1/Bird	200				
								Feeder and Waterer	1 set	1600				
<b>Total</b>								<b>9160</b>	<b>5</b>	<b>45800</b>				

9.14	Animal Husbandry	Fodder-Maize	<p>Poor water availability for fodder cultivation during offseason.</p> <p>Lack of awareness of hydroponic technology.</p> <p>Non availability of good quality fodder during lean season.</p>	Demonstration of Hydroponics fodder cultivation technology to rural farmer	Variety		TANUV AS	Input Seed cost	-	1,200	2	60400	Yield. Economics	SMS(Veterinary) and PC
								Construction of unit	-	25,000				
								Other expenses (Tray, watering arrangements etc)	-	4,000				
								<b>Total</b>		<b>30200</b>				
											<b>2</b>	<b>60400</b>		

9.15	Livestock	Poultry	<p>Low weight gain of bird. Lack of awareness of Desi bird rearing. Low income of rural youth entrepreneurs</p>	Demonstration of improved Aseel performance under back yard system	Variety	Namakkal	TANUV AS	Cost Of chicks	30 nos.	1,350	5		Body weight Survivability Egg production	SMS(Veterinary) and PC
								Cost of vaccine	-	200				
								Cost of Feed	120 kg	3,840				
								Cost of Feeder & Drinker	1 set	800				
								Cost of Brooder	1 No.	3,500				
								Brooding Time Therapeutic care	-	500				
								<b>Total</b>		<b>10190</b>				
											<b>5</b>	<b>50950</b>		

9.16	Fisher ies	Fisheries	Lack of awareness about ornamental fish culture Livelihood opportunity for rural youths.	Demonstration of seed production technology of Gold Fish in cement tanks	Improved variety	Gold fish	TNJFU	Circular cement tanks	1 no	4000	2	14000	Spawning frequency Growth rate of offsprings Survival rate of offsprings Yield	SMS (Fisheries Extn.) & PC
								Brooder fish	1 no	2000				
								Tank accessories	-	1000				
								<b>Total</b>		<b>7000</b>				

## **Farmer's Field School (FFS) planned – 2019-20**

Thematic area	:	Value addition
Title of the FFS	:	Value addition in Milk
Budget proposed in Rs	:	30,000
Season and Period	:	June to December 2019
Periodicity of the session	:	14 weekly classes
Name of the village	:	Sembanarkovil-Sembanarkovil block
Number of participants	:	30
Name of the Facilitators	:	KVK staff & Animal Husbandry Department Officials
Area of the FFS field	:	Preparation of value added products from milk

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

- Lack of knowledge in value added products
- Lack of knowledge in dairy products

### **Objectives of the FFS**

- To create awareness on value addition
- Marketing of products
- To enhance the annual income

### **Lecture Schedule**

1. Milk synthesis and its composition
2. Mastitis & Clean milk production
3. Milk , Toned milk, Double Toned and skim milk preparation
4. BIS specification of various products and its importance
5. Cream preparation
6. Flavored milk preparation
7. Peda preparation
8. Khoa preparation
9. Panner preparation
10. Whey drink preparation
11. Curd and Lassi preparation
12. Ghee and Butter milk preparation
13. Marketing and Storage
14. Field day

**Budget breakup for FFS**

<b>Activities</b>	<b>Amount (Rs.)</b>
Materials for product preparation (14x Rs. 750)	10,500
Training banner and preparation	2,000
Refreshment classes (14x30x30)	12,600
Training manual @ Rs 130/farmer for 30 farmers (30x120)	3,900
Field day	1,000
<b>Total</b>	<b>30,000</b>

**Special Programme- Integrated Farming System:**

<b>Sl. No</b>	<b>Components</b>	<b>Nos.</b>	<b>Amount (Rs.)</b>
1	Silpaulin vermi bag	3 Nos.	9,000
2	Nandhanam1 chicks	300 Nos.	12,000
3	Japanese Quail	300 Nos.	2,100
4	Fish seed - major carps @ Rs.5/No.	1500 Nos.	7,500
5	Bee hives	9 nos.	10,000
5	Fodder Sorghum CO(FS)31 @ Rs 5 Kg /ha	6 Kg.	3,000
<b>Total</b>			<b>43,600</b>

### 10. Training for Farmers/ Farm Women during 2019-20

S. No.	Thematic area	Crop /Enterprise	Major problem	Linked field intervention (Assessment/Refinement /FLD)	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
1	ICM	Paddy, Cotton	Lack of knowledge on ICM and IPDM technologies	FLD-Demonstration of Newly released rice variety ADT 53 and VGD 1 in Nagapattinam District FLD-Demonstration of Saline tolerant rice varieties for Nagapattinam District FLD-Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy FLD-Demonstration on Eco friendly IPM strategies for major Sucking pests in cotton	ICM in Rice and cotton	2	60	SMS(Agri. Entomology)
2	IPDM	Vegetables	Lack of knowledge on IPDM technologies	OFT-Assessment of Performance of Bhendi hybrids in Nagapattinam district	IPDM in vegetables	2	60	SMS(Agri. Entomology)
3	Skill development	Bee hive	Lack of knowledge on Bee hive technologies	-	Honey bee training	1	30	SMS(Agri. Entomology)
4	ICM	Paddy	Lack of knowledge on ICM and IPDM technologies	-	Irrigation and weed management	1	40	SMS(Agri. Entomology)

5	IPDM	Paddy	Lack of knowledge on IPDM technologies	FLD-Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy FLD-Demonstration IDM strategies for False smut in Rice	IPDM in rice	2	60	SMS(Agri. Entomology)
6	Organic farming	Vermi compost production	Lack of knowledge on composting technology	-	Farm waste management	1	30	SMS(Animal Husbandry)
7	IPDM	Flowers	Lack of knowledge on IPDM technologies	FLD-Demonstration on Eco friendly IPM strategies for major pests in Jasmine	IPDM in flowers	1	40	SMS(Agricultural Entomology)
8	Skill development	Bee hive	Lack of knowledge on Bee hive technologies	-	Honey bee Training	1	30	SMS(Fisheries Extension)
9	IPDM	Fruits	Lack of knowledge on IPDM technologies	FLD-Demonstration on IDM strategies for major Diseases in Banana	IPDM in Fruits crops	1	40	SMS(Animal Husbandry) & SMS(Agricultural Entomology)
10	Home science	Mushroom	Lack of knowledge on human nutrition	-	Mushroom production	1	30	SMS(Agricultural Entomology) & SMS(Fisheries Extension)
11	ICM and IPDM	Pulses	Lack of knowledge on IPDM technologies	FLD-Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt. FLD-Demonstration of Newly released Greengram variety VBN 4 in Nagapattinam District	ICM and IPDM in pulses	2	60	SMS(Agricultural Entomology) & SMS(Animal Husbandry)

12	IPDM	Ground nut	Lack of knowledge on IPDM technologies	OFT-Assessment of drought tolerant groundnut varieties under rainfed condition	IPDM in oilseeds	1	40	SMS(Agricultural Entomology)
13	Animal Husbandry	Milch animal rearing	Poor management of milch animals lead to low milk yield	OFT-Effect of Mixed fodder bank on livestock productivity (Grasses, Cereal, Pulse & Tree Fodder)	Profitable Dairy farming	2	60	SMS(Animal Husbandry)
14	Livestock	Poultry	Lack of knowledge on poultry farming	FLD-Demonstration of improved Aseel performance under back yard system	Desi bird Rearing	2	80	SMS(Animal Husbandry)
15	Live stock	Goat farming	Poor management of goats lead to low weight gain	OFT-Effect of Mixed fodder bank on livestock productivity (Grasses, Cereal, Pulse & Tree Fodder)	Scientific Goat Rearing	2	60	SMS(Animal Husbandry)
16	Organic farming	Waste management	Lack of knowledge on composting technology	-	Green farming / Zero waste farming	1	40	SMS(Animal Husbandry)
17	Animal husbandry	Fodder crop	Poor management of milch animals lead to low milk yield	OFT-Effect of Mixed fodder bank on livestock productivity (Grasses, Cereal, Pulse & Tree Fodder)	Fodder crop cultivation(IFS)	3	40	SMS(Animal Husbandry)
18	Livestock	Poultry	Lack of knowledge on poultry farming	FLD-Demonstration of improved Aseel performance under back yard system	Broiler / Layer Farming	2	60	SMS(Animal Husbandry)



19	Value addition	Dairy	Lack of awareness on Value addition in milk products	FFS on Value addition in Milk	Milk & Hygenic Milk Production	1	40	SMS(Animal Husbandry)
20	Livestock	Quail	Lack of knowledge on poultry farming	FLD-Demonstration of Scientific Rearing of Japanese Quail among rural farmers (EDP)	Scientific Quail farming	2	60	SMS(Animal Husbandry)
21	Animal husbandry	Cattle	Lack of knowledge on health care for cattle	-	Ethno veterinary Medicinal practices	1	40	SMS(Animal Husbandry)
22	IFS	IFS	Lack of knowledge on IFS	IFS under Special programme	Integrated Farming System	1	40	SMS(Animal Husbandry)
23	Value addition	Milk products	Lack of knowledge on value addition in milk		Value addition of Milk	1	30	SMS(Animal Husbandry)
24	IFS	IFS	Lack of knowledge on IFS	IFS under Special programme	IFS	1	40	SMS(Animal Husbandry)
25	Animal husbandry	Fodder Maize	Poor management of milch animals lead to low milk yield	FLD-Demonstration of Hydroponics fodder cultivation technology to rural farmer	Hydroponics and silage production	1	30	SMS(Animal Husbandry)
26	Fisheries	Dry fish	Lack of awareness on Value addition in fish and prawn	-	Hygienic dry fish production	1	30	SMS(Fisheries Extension)
27	Fisheries	Fish production	Lack of entrepreneur activity among rural youth	FLD-Demonstration of seed production technology of Gold Fish in cement tanks.	Ornamental fish culture techniques	1	40	SMS(Fisheries Extension)

28	Fisheries	Fish culture	Unaware of scientific fish culture practices and Low weight gain in existing fish culture.	OFT-Evaluation of growth performance of Red Tilapia and GIFT Tilapia in farm ponds.	Disease management in carp culture	1	40	SMS(Fisheries Extension)
29	Value addition	Dry fish production	Lack of awareness on Value addition in fish and prawn	-	Masala dry fish production	1	40	SMS(Fisheries Extension)
30	Value addition	Fish	Lack of awareness on Value addition in fish	-	Fish pickle preparation	1	40	SMS(Fisheries Extension)
31	Entrepreneurship development	Fish production	Lack of entrepreneur activity among rural youth	-	Fabrication of aquarium tanks	1	30	SMS(Fisheries Extension)
32	Fisheries	Fish and vegetables	Unaware of scientific fish culture practices and Low weight gain in existing fish culture.	OFT-Evaluation of growth performance of Red Tilapia and GIFT Tilapia in farm ponds.	Aquaponics	1	40	SMS(Fisheries Extension)
33	Value Addition	Sea weed	Lack of knowledge on Spirulina culture	-	Spirulina culture	1	30	SMS(Fisheries Extension)
34	Entrepreneurship development	Fish culture	Lack of entrepreneur activity among rural youth	OFT-Evaluation of growth performance of Red Tilapia and GIFT Tilapia in farm ponds.	Carp seed production	1	40	SMS(Fisheries Extension)
35	IFS	IFS	Lack of knowledge on IFS	IFS under Special programme	Integrated Farming System	1	40	SMS(Animal Husbandry)

### 11. Training for Rural Youth during 2019-20

S.No.	Thematic area	Crop / Enterprise	Major problem	Training Course Title**	No. of Courses	Expected No. of participants	Team members involved
1	ICM	Vegetable and fruits	Non availability of vegetable and fruit seedlings	Nursery Management of Horticulture crops	1	25	SMS(Agricultural Entomology)
2	Skill development	Fruits	Lack of knowledge on orchard management	Training and pruning of orchards	1	25	SMS(Agricultural Entomology)
3	ICM	Vegetable	Lack of knowledge on Protected cultivation	Protected cultivation of vegetable crops	1	25	SMS(Agricultural Entomology)
4	ICM	Mango and banana	Lack of knowledge on commercial fruits cultivation	Commercial fruit production	1	25	SMS(Agricultural Entomology)
5	IFS	Mixed farming	Lack of knowledge on IFS	Integrated farming	1	25	SMS(Animal Husbandry)
6	Seed production	Paddy	Lack of knowledge on seed production	Seed production	1	25	SMS(Agricultural Entomology)
7	Production of Inputs	Vermi compost	Lack of knowledge on Waste management	Production of organic inputs	1	25	SMS(Agricultural Entomology)
8	Seedling production	Forest tree seedling	Lack of knowledge on tree seedling production	Planting material production	1	25	SMS(Agricultural Entomology)
9	Production of Inputs	Vermi compost	Lack of knowledge on Waste management	Vermi-culture	1	25	SMS(Agricultural Entomology)
10	Home science	Mushroom production	Lack of knowledge on mushroom production	Mushroom Production	1	25	SMS(Agricultural Entomology)
11	Skill development	Bee hive technologies	Lack of entrepreneur activity among rural youth	Bee-keeping	1	25	SMS(Agricultural Entomology)
12	Value addition	Fisheries	Lack of awareness on preservation techniques of fish and Lack of awareness on processing and value addition	Value addition	1	25	SMS(Fisheries Extension) & SMS(Animal Husbandry)

13	Value addition	Fisheries	Lack of awareness on preservation techniques of fish and Lack of awareness on processing and value addition	Post Harvest Technology	1	25	SMS(Fisheries Extension) & SMS(Animal Husbandry)
14	Value addition	Dairying	Lack of awareness on preservation techniques of fish and Lack of awareness on processing and value addition	Production of quality animal products	1	25	SMS(Animal Husbandry)
15	Animal Husbandry	Dairying	Rearing of milch cow	Dairying	1	25	SMS(Animal Husbandry)
16	Livestock	Goat farming	Lack of entrepreneur activity among rural youth	Sheep and goat rearing	1	25	SMS(Animal Husbandry)
17	Livestock	Quail farming	Lack of entrepreneur activity among rural youth	Quail farming	1	25	SMS(Animal Husbandry)
18	<b>Live stock</b>	Piggery	Lack of entrepreneur activity among rural youth	Piggery production	1	25	SMS(Animal Husbandry)
19	Livestock	Poultry farming	Lack of entrepreneur activity among rural youth	Poultry production	1	25	SMS(Animal Husbandry)
20	Fisheries	Fish production	Lack of entrepreneur activity among rural youth	Ornamental fisheries	1	25	SMS(Fisheries Extension)
21	Fisheries	Fish production	Lack of knowledge on fish culture	Composite fish culture	1	25	SMS(Fisheries Extension)
22	Fisheries	Fish production	Lack of knowledge on prawn culture	Freshwater prawn culture	1	25	SMS(Fisheries Extension)
23	Fisheries	Fish production	Lack of entrepreneur activity among rural youth	Shrimp farming	1	25	SMS(Fisheries Extension)

24	Value addition	Fish products	Lack of awareness on preservation techniques of fish and Lack of awareness on processing and value addition	Fish harvest and processing technology	1	25	SMS(Fisheries Extension)
25	Fisheries	Fish production	Lack of entrepreneur activity among rural youth	Fry and fingerling rearing	1	25	SMS(Fisheries Extension)

### 12 Trainings for Extension Personnel during 2019-20

S.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members
1	Crop Production	Productivity enhancement in field crops	3	40	SMS(Agricultural Entomology)
2	IPDM	Integrated Pest Management	5	40	SMS(Agricultural Entomology)
3	INM	Integrated Nutrient management	2	40	SMS(Agricultural Entomology)
4	ICM	Rejuvenation of old orchards	1	40	SMS(Agricultural Entomology)
5	Farmers club	Formation and Management of SHGs	1	60	All SMS
6	Farmers club	Group Dynamics and farmers organization	1	60	All SMS
7	ICT	Capacity building for ICT application	1	50	PC, P.A Tech & P.A. Computer
8	Livestock management	Management in farm animals	1	40	SMS(Animal Husbandry)
9	Animal husbandry	Livestock feed and fodder production	1	40	SMS(Animal Husbandry)

### 13. Vocational trainings during 2019-20

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	-	SMS(Agricultural Entomology)
2	Livestock	Desi birds rearing technology	1	SHGs, Rural youth and farmers	30	-	SMS(Animal Husbandry)
3	Post harvest Technologies	Value addition in Fish and Prawn	1	SHG, Youth	30	-	SMS(Fisheries Extension)
4	Honey bee	Training on Honey production	1	SHGs, Rural youth	30	-	SMS(Agricultural Entomology)
5	Post Harvest Technologies	Processing and value addition milk	2	SHGs, Rural youth, farm women	30	-	SMS(Animal Husbandry)

#### 14. Sponsored trainings during 2019-20

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	ICM	Management practices for cyclone damaged Coconut and Cashew crop	1	ATAM Farmer Members	50	ATMA under NADP, Department of Agriculture	SMS (Agri. Ento), P.A.Tech and P.A Computer
2	Sericulture	Sericulture Technologies	1	ATAM Farmer Members	50		
3	Floriculture	ICM in Flowers	1	ATAM Farmer Members	50		
4	Agro -Forestry	Suitable Agro-Forestry model for Nagapattinam Dt.	1	ATAM Farmer Members	50		
5	Plant Protection	IPDM technologies for Fall army worm in Maize and Rugose Spiraling Whitefly in Coconut	1	ATAM Farmer Members	50		
6	Horticulture	ICM in Vegetable	1	ATAM Farmer Members	50		
7	Fruits	Ultra High Density Planting techniques	1	ATAM Farmer Members	50		
8	Horticulture	Grafting technologies for Brinjal	1	ATAM Farmer Members	50		
9	Livestock	Desi Bird-Poultry rearing technologies	1	ATAM Farmer Members	50		SMS(Animal Husbandry), P.A.Tech and P.A Computer
10	Livestock	Stall fed goat farming	1	ATAM Farmer Members	50		
11	IFS	Integrated Farming System Technologies	1	ATAM Farmer Members	50		

12	Value Addition	Value Addition in milk	1	ATAM Farmer Members	50		
13	Animal Health Care	Ethno veterinary Medicinal practices	1	ATAM Farmer Members	50		
14	Fisheries	Gift Tilapia fish culture	1	ATAM Farmer Members	50		SMS (Fisheries Extn.), P.A.Tech and P.A Computer
15	Fisheries	Ornamental fish production	1	ATAM Farmer Members	50		
16	Fisheries		1	ATAM Farmer Members	50		
17	Fisheries	Inland composite fish culture	1	ATAM Farmer Members	50		
18	Fisheries	Fish fingerling rearing technologies	1	ATAM Farmer Members	50		

#### 15. Extension programmes during 2019-20

Sl.No.	Extension programme	No. of programmes or activities	Expected No. of participants	Names of the team members involved
1	Advisory Services	250	1000	P C, SMSs and PAs
2	Diagnostic visits	200	350	
3	Field Day	15	450	
4	Group discussions	10	100	
5	Film Show	15	750	
6	Self-help groups	5	150	
7	Kisan Mela	5	1000	
8	Exhibition	5	1000	
9	Scientists' visit to farmers field	100	200	
10	Soil health/Animal health camps	2	100	
11	Farm Science Club	2	75	
12	Farmers' seminar/workshop	2	200	
13	Method Demonstrations	30	450	
14	Celebration of important days	5	250	
15	Special day celebration	3	150	
16	Exposure visits	3	75	
17	Technology week	1	500	
18	Farm innovators meet	1	50	
19	Awareness programs	3	300	
	<b>Total</b>	<b>657</b>	<b>7150</b>	



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

### 16.1 Technological knowledge

Sl.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
16.1.1	Technology Park/ Crop cafeteria	Latest released varieties	Each 0.2 ha	P.C, SMS(Agricultural Entomology) SMS(Animal Husbandry) SMS(Fisheries Extension) and Farm Manager
16.1.2	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.	
		Poultry unit	1 No.	
		Quail rearing		
		Fodder production	2 nos.	
		Coir pith compost production	1 No.	
		Tree seedlings production	1 No.	
		Fish production unit	4 nos.	
		IFS unit	1 no.	
Panchagavya production	1 no.			
Aquaponics	1 no.			
16.1.3	Lab Analytical services	pH, EC, OC, N, P and K analysis	500 water and 300 soil samples	P.A. (Tech)

### 17. 1 Technological Products to be produced:

Proposed activities	Expected output	Anticipated income (Rs.)
Rice: TFL seeds- TKM 13, TRY3, ADT 51, ADT 53.	300 qtl	9,90,000
Pulses- BG VBN6, VBN 8, GG CO8	100 qtl	12,00,000
Planting materials	Coconut seedlings- 5000 Nos.	2,10,000
	Vegetable seedlings (400 portrays)	40,000
	Fodder slips- 5000 Nos.	5,000
	Teak - 5000 Nos	50,000
Bio-products	Pseudomonas – 2 ton	2,00,000
	Vermicompost-10 ton	10,00,000
	Azolla- 1 ton	10,000
	Coir pith Compost - 5 ton	50,000
IFS demonstration (1 ac)	Fish - 5000 kg Poultry - 1000 nos Vegetables - 500 kg Banana - 500 kg Paddy - 1000 kg	2,00,000

### 17.2. 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	P.C, SMS(Agricultural Entomology) SMS(Animal Husbandry) SMS(Fisheries Extension)
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 -FPOs, Farmers club etc., Post harvest technologies and value addition of rice, pulses, groundnut, sugarcane, cotton, vegetables and fruits	
5	Department of Animal Husbandry	Conducting of Animal Health camp and vaccination programme	
6	Department of Fisheries	Training to Fish farmers	
7	Kisan Mobile Advisory Services	50 (4000 farmers)	P.A Technical and P.A Computer

### 18. Additional Activities Planned during 2019-20

S. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	Animal Husbandry	IFS	Training	10000	P.C, SMS(Animal Husbandry) SMS(Fisheries Extension)
2	NABARD	Capacity building of FPO members	Workshop	10000	P.C, SMS(Animal Husbandry) and P.A Technical
3	NABARD CAT programme	Backyard Poultry	Training	10000	P.C, SMS(Animal Husbandry)
4	NABARD CAT programme	Traditional Varieties of Paddy Cultivation	Training	10000	P.C, SMS(Agri. Ento)

**19. Revolving Fund:**

## 19.1 Financial status

Opening balance as on 1.04.2018	Receipts	Expenditure	Closing balance as on 31.03.2019
1.73	13.60125	13.44805	0.15320

**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	P.C, SMS(Agricultural Entomology) SMS(Animal Husbandry) SMS(Fisheries Extension) and Farm Manager
Pulses- BG ADT 3, VBN8, GG CO8	100 qtl		
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	
	Fish	200000	
	Poultry	10000	

**20. Activities of soil, water and plant testing laboratory during 2019-20**

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
20.1	Soil	500	P.A. (Technical) and P.A computer
20.2	Water	300	

**21. E-linkage during 2019-20**

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
21.6	Whats App utility	Whats App group on “Farmers of Nagapattinam district” was created during 2017	Technical information and training information is being shared very effectively.

## 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	October 2019
23.3	Brief action plan in this regard	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 allied sector. In the presence of district level higher officials and progressive farmers the salient features of innovations will be explained and demonstrated by the innovators. Based on the scores, the farm innovators will be selected and suitably rewarded.

### 24. Farm Land Utilization Details:

S. No	Particulars	Details
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 2019	
08	Crops planned cultivated in KVK campus during October to February 2019-20	
09	Crops planned to be cultivated in KVK campus during March to May 2019 (Please furnish area in ha for each crop in brackets after indicating the name of the crop)	
10	Area under buildings in ha	2.40 ha
11	Area under Demonstration units in ha	3.60 ha

#### 24.1 Cropping Programme for the year 2019-20

Field No.	Area (ac)	June-Aug	Sept-Jan	Feb- May
A block- West	4.13	Green Manure	Paddy	Paddy
A block- East	3.11	Pulses,Fodder	Fodder	Pulses,Fodder
B block-West	4.0	Green Manure	Paddy	Paddy
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	Green Manure	Rice	Pulses
F block- East	1.12	Green Manure	Rice	Pulses
F block- West	2.25	Tree sps	Tree sps	Tree sps
Total	40.36	40.36	40.36	40.36

**Area under cultivation** – 40.36 acre (16.14 ha)

**Cropping intensity for the year 2019-2020** =  $121.08/40.36 \times 100 = 300 \%$

## 25. Budget - Details of Budget Estimate (2019-20) based on proposed action plan

S.No	Particulars	Proposed BE 2019-20 (Rs lakhs) (indicative)
<b>1</b>	<b>Recurring Items:</b>	
	Pay & Allowances	97.95
	Traveling allowances	2.00
	Field activities & Programmes	0.50
<b>1.1</b>	<b>Contingencies</b>	-
<b>A</b>	<b>Office Contingencies</b>	-
a.	Stationery, telephone, stamps and other expenditure on office running	5.00
b.	POL, repair of vehicles, tractor & equipments including hiring of vehicle	
<b>B</b>	<b>Technical Programmes</b>	-
a.	Rs. 150/- per person per day towards food and refreshments for KVK training programmes for farmers/ extension personnel	2.30
b.	Teaching materials for training and demonstrations	0.25
c.	Training of extension functionaries	0.60
d.	Publication of extension literature for farmers and extension functionaries	0.50
e.	Honorarium for trainers	0.10
f.	On farm testing (Problem oriented)	1.75
g.	Front Line Demonstration on major crops including oilseeds & pulses, fodder crops, animal husbandry, fisheries etc.	4.10
h.	Kisan Melas/ Farmers Fair (at KVK farm)	1.00
i.	Library (Purchase of newspaper, journals, etc.)	0.10
j.	Maintenance of farm	1.00
k.	Entrepreneurship development programme (EDP)/ Integrated Farming system (IFS)/ Farmers Field School (FFS), Strengthening of Demo units	8.116
l.	Mobile App & Website updating/maintenance	1.25
m.	Soil Health Card (SHC)	0.25
n.	SCSP Plan activities	2.05
<b>C.</b>	<b>Tribal Sub-Plan (TSP Component)</b>	-
	<b>Total of Contingencies</b>	<b>28.366</b>
	<b>Total Recurring items</b>	<b>128.816</b>
<b>2</b>	<b>Non-Recurring Contingencies</b>	-
	<b>Works</b>	1.00
	<b>Total</b>	1.00
	<b>SC-SP Component</b>	2.84
	<b>Furniture</b>	-
	<b>Equipment</b>	-
	<b>Vehicle (Jeep &amp; tractor)</b>	-
	<b>Total Non-Recurring Contingencies</b>	<b>4.840</b>
	<b>Grand Total (1+2)</b>	<b>133.656</b>

## 26. Summary of OFT and FLDs proposed for the year 2019-20

### A. On Farm Testing (OFT)

Sl. No	Technology to be Assessed	No of Trial	Area (Ha)	Budget (Rs)
1	IPM of Fall Army Worm ( <i>Spodoptera fugiperda</i> ) on Maize	5	2	24750
2	Assessment of drought tolerant groundnut varieties under rainfed condition.	5	2	36,000
3	Assessment of Performance of Bhenidi hybrids in Nagapattinam district	5	1	25,000
4	Effect of Mixed fodder bank on livestock productivity (Grasses, Cereal, Pulse & Tree Fodder)	5	1	10,300
5	Evaluation of growth performance of Red Tilapia and GIFT Tilapia in farm ponds	2	-	78,000
	<b>Total</b>	<b>22</b>	<b>6.0</b>	<b>1,74,050</b>

### (B) Frontline Demonstration (FLD) 2019-20

Sl. No	Title of the FLDs	No of Demo	Area (Ha)	Budget (Rs)
1	Demonstration of Newly released rice variety ADT 53 in Nagapattinam District	20	8	20,400
2	Demonstration of Newly released rice variety VGD 1 in Nagapattinam District	20	8	15,200
3	Demonstration of Saline tolerant rice varieties for Nagapattinam District	10	4	13,200
4	Demonstration of Eco friendly pest and disease management in Thaladi (Rabi) paddy	10	4	31,000
5	Demonstration IDM strategies for False smut in Rice	20	8	12,400
6	Demonstration of ICM in Black gram VBN 8 in Nagapattinam Dt.	10	4	24,000
7	Demonstration of Newly released Greengram variety VBN 4 in Nagapattinam District	10	4	24,000
8	Demonstration on Eco friendly IPM strategies for major Sucking pests in cotton	10	4	14000
9	Demonstration on Eco friendly IPM strategies for major pests in Coconut	10	4	16,500

10	Demonstration on IDM strategies for major Diseases in Banana	10	4	25200
11	Demonstration on Eco friendly IPM strategies for major pests in Jasmine	10	4	17,200
12	Classical model on multifunctional agroforestry for small and marginal farmers	2	1	24,100
13	Demonstration of Scientific Rearing of Japanese Quail among rural farmers (EDP)	10	-	45,800
14	Demonstration of Hydroponics fodder cultivation technology to rural farmer	2	-	60,400
15	Demonstration of improved Aseel performance under back yard system	5	-	50,950
16	Demonstration of seed production technology of Gold Fish in cement tanks.	2	-	14,000
	<b>Total</b>	<b>161</b>	<b>59</b>	<b>4,08350</b>



### Targets of mandated activities for the Year 2019-20

S. No.	Activities	Target (Number)
1	On- farm trials	
a	No. of technologies	5
b	No of Trials	22
2	Frontline Demonstrations	
a	No. of technologies	16
b	No of Demonstrations	161
3	Training of Farmers	
a	No of Courses	46
b	No of Participants	1510
4	Training of Rural Youth	
a	No of Courses	25
b	No of Participants	625
5	Training of Extension Personnel	
a	No of Courses	16
b	No of Participants	410
6	Vocational Training	5
a	No of Courses	150
b	No of Participants	
7	Sponsored Training	
a	No of Courses	18
b	No of Participants	900
8	Paid Training	
a	No of Courses	-
b	No of Participants	-
9	Extension activities	
a	No of Programs	657
b	No of Participants	7150
10	Technology Products : Seed – ( Kgs)	40000
11	Technology Products : Planting material – ( Nos)	15400
12	Technology Products : Bio-products	
a	Kgs	18000
b	Nos	-
13	Technology Products : Live-stock strains(Animals) - (Nos)	-
14	Technology Products : Live-stock strains (Poultry) - (Nos)	1000
15	Technology Products : Live-stock strains (Fish fingerlings) - (Nos)	5000
16	Kisan Mobile Advisory (KMAS)	
a	No of Messages	50
b	No of farmers	4000
17	Soil and Water Testing Laboratory (No of samples)	800
18	Expected Closing Balance of Revolving Fund on 31.3.2019–(Rs.)	15,320

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