

ICAR-Agricultural Technology Application Research Institute  
(ICAR-ATARI)

ICAR-KRISHI VIGYAN KENDRA, TNJFU  
Sikkal, Nagapattinam Dt. Tamil Nadu

Action Plan 2024-25: Summary of Technical Activities

1. Name and address of KVK ICAR-KVK, Nagapattinam  
ICAR-Krishi Vigyan Kendra,  
Sikkal – 611 108.  
Nagapattinam District.  
Phone 04365-299806  
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2. District map with location of the KVK  
GPS reading of the Entrance of KVK  
Lat: 10.758078, Long: 79.794666



### 3.1 Operational area/Cluster villages details

District/Taluk / Block	Names of cluster Villages	Major crops & enterprises	Major problems identified in each crop/enterprise	Proposed type of interventions
Kilvelur-Kilvelur	Nangudi	Rice, Pulses	Poor grain filling. Low yield of existing Green gram varieties and unawareness of New Variety	OFT, Training & Extension Activity
Nagapattinam-Nagapattinam	Sikkal	Rice, Pulses	Poor grain filling. Low yield of existing Green gram varieties and unawareness of New Variety	OFT, Training & Extension Activity
Vedaranyam-Thalainayar	Thalainayar	Rice, Pulses, Vegetables	Poor grain filling. Low yield of existing Ground nut varieties	OFT, Training & Extension Activity
Nagapattinam-Nagapattinam	Sikkal	Rice, Pulses	Grain filling, Low yield of existing rice varieties, Low yield of existing Green gram varieties and unawareness of New Variety	FLD, Training & Extension Activity
Nagapattinam-Nagapattinam	Ponveli	Rice, Pulses, poultry, goat farming, Fisheries	Poor grain filling, Low yield of existing local varieties and unawareness of New Variety,  Low yield of existing Green gram varieties and unawareness of New Variety.  High incidence of False smut, Low yield, Lack of knowledge on IDM practices in Rice.  High quail chicks mortality and Increased demand for J. quail meat.  Retarded growth rate Kid mortality	FLD, OFT, Training & Extension Activity
Kilvelur-Kilvelur	Nangudi	Rice, Pulses	Grain filling, Low yield of existing local varieties and unawareness of New Variety , Low yield of existing Green gram varieties and unawareness of New Variety. Due to Gram pod borer and spotted pod borer cause yield loss up to 30%	FLD, Training & Extension Activity

			Resorting of farmers for chemical control leading to higher cost of production Lack of awareness on IPM.	
Kilvelur-Kilvelur	Illupur	Rice, Pulses	Grain filling, Low yield of existing local varieties and unawareness of New Variety, Low yield of existing Green gram varieties and unawareness of New Variety	FLD, Training & Extension Activity
Thirukkuvalai-Keelaiyur	Keelaiyur	Rice, Pulses, Groundnut, Vegetable	Saline water problem, Low yield of existing varieties, Unaware of millets cultivation, Low yield of existing Green gram varieties and unawareness of New Variety	OFT, FLD, Training & Extension Activity
Vedharanyam/Thalainayar	Koilpathu	Vegetables, Ground nut, Pulses, Mango, Coconut	Shoot & Fruit borer, Heavy use of Pesticides and fertilizers, low yield potential of existing cultivars. Incidence of G.nut stem rot infestation	OFT, trainings & Method demonstrations
Thrukuvalai-Keelaiyur	Vellapallam	Vegetables, Ground nut, Pulses, Mango, Coconut	Flower drop, Poor fruit set, Fruit rot, Low yield	OFT, trainings & Method demonstrations
Vedharanyam/Vedharanyam	Sembagarayanellur	Vegetables, Ground nut, Pulses, Mango, Coconut	Heavy flower drop, poor fruit set, pod borer infestation and low yield	FLD, Training & Extension Activity
Thrukuvalai-Keelaiyur	PR Puram	Vegetables, Ground nut, Pulses, Mango, Coconut	Wilt incidence, Long statured plants Less number of pods, Low yield	FLD, trainings & Method demonstrations
Nagapattinam/Nagapattinam	N.P.Nallur	Rice, Pulses, Vegetables, Ground nut, Pulses,	Lower plant population, Poor growth and low yield	FLD, Training & Extension Activity
Nagapattinam/Nagapattinam	Nagapattinam and Nagore	Rice, Pulses, Vegetables, Ground nut, Pulses,	Reduction of vegetable cultivation due to urbanization.  Dependency on nearby districts for vegetables	FLD, Training & Extension Activity
Vedharanyam/Vedharanyam	Sembodai	Vegetables, Ground nut, Pulses, Mango, Coconut, Flowers	Leaf spot & Grey mould infestation, poor shelf life, low yield, less income	FLD, Training & Extension Activity
Nagapattinam/Nagapattinam	Puliyur,	Rice, Pulses, Vegetables, Ground nut, Pulses,	High incidence of False smut, Low yield, Lack of knowledge on IDM practices in Rice.	OFT, FLD, Training & Extension Activity
Nagapattinam/	Kuttramporathani	Rice, Pulses,	Yield loss,	OFT, Training &

Nagapattinam	rropu,	Vegetables, Ground nut, Pulses,	Lack of awareness on IPM for false smut in Rice	Extension Activity
Kilvelur- Kilvelur	Agarakadambanur ,	Rice, Pulses, Fisheries	Due to Gram pod borer and Spotted pod borer cause yield loss up to 30% Resorting of farmers for chemical control leading to higher cost of production, Lack of awareness on IPM.  Unawareness among farmers, Low income for monoculture, Long culture duration for carp farming	OFT, FLD, Training & Extension Activity
Nagapattinam- Thirumarugal	Thirumarugal,	Rice, Pulses, Cotton	Incidence of Mealy bug infestation, Indiscriminate use of pesticides and lack of awareness about IPM	OFT, Training & Extension Activity
Kilvelur- Kilvelur	Kilvelur	Rice, Pulses, Cotton	Incidence of Mealy bug infestation, Indiscriminate use of pesticides and lack of awareness about IPM	OFT, Training & Extension Activity
Nagapattinam- Thirumarugal	Agarakonthagai	Rice, Pulses, Cotton, Vegetable	Fruit fly incidence in gourds	FLD, Training & Extension Activity
Vedharanyam- Thalainayar	Naluvethapathy,	Rice, Pulses, Cotton, Vegetable, Fisheries, Poultry, Goat farming	Fruit fly incidence in gourds.  Retarded growth rate Kid mortality,  Lack of awareness about Tilapia culture and low productivity of ponds.  Retarded growth rate Kid mortality	FLD, Training & Extension Activity
Vedharanyam/ Vedharanyam	Kodiyakadu, Kodiyakarai	Rice, Pulses, Vegetable, Mango, Coconut	wild boar attack in rice	FLD, Training & Extension Activity
Vedharanyam/ Vedharanyam	Kodiyakadu, Kodiyakarai	Rice, Pulses, Coconut	wild boar attack in rice	FLD, Training & Extension Activity
Vedharanyam/ Vedharanyam	Pushpavanam	Rice, Pulses, Gingelly Vegetable, Mango, Coconut, Poultry, goat farming	Stem rot infestation resulted yield loss of up to 25 %  Retarded growth rate Goat kid mortality	FLD, Training & Extension Activity
Thirukuvalai- Keelaiyur	Kameshwaram	Rice, Pulses, Gingelly Groundnut, Vegetable,	Stem rot infestation resulted yield loss of up to 25 %.  Incidence of G.nut stem rot infestation .  Lack of knowledge on	FLD, Training & Extension Activity

			Mango value addition	
Kilvelur-Kilvelur	Rathamangalam	Rice, Pulses and fisheries	Low productivity of ponds, lack of awareness about scampi culture and low availability of plankton	OFT, Training & Extension Activity
Nagapattinam-Nagapattinam	Paravai	Rice, Pulses, Vegetables and fisheries	High cost of commercial growth enhancer and high cost of commercial probiotics to control the disease. Lack of knowledge on Milk fish culture. High quail chicks mortality and Increased demand for J. quail meat.	OFT, FLD, Training & Extension Activity
Nagapattinam – Nagapattinam	Ponveli and Molithidal	Rice, Pulses, Vegetables and fisheries	Lack of knowledge of different method of organic Fish Granule Fertilizer preparation.  Lack of awareness of value added seaweed products.  Lack of awareness of packaging techniques of dry fish. Lack of awareness of Groundnut value added products.  Lack of awareness of value added Karuppu Kavuni rice products.  Lack of awareness of value added Amla products.  Lack of knowledge on Masmin production	OFT, FLD, Training & Extension Activity
Thrukuvalai-Keelaiyur Block	Vizhundhamavadi	Rice, Pulses and Gingelly Groundnut, Vegetable, Mango	Lack of knowledge on Mango value addition	FLD, Training & Extension Activity
Vedharanyam – Vedaranyam block	Vadamazhai	Rice, Pulses and Gingelly Groundnut, Vegetable, Coconut, Poultry, Goat farming	Lack of awareness of value added Karuppu Kavuni rice products.	FLD, Training & Extension Activity
Nagapattinam-Nagapattinam Block	Keechankupam	Rice, Pulses, Vegetables and Marine fisheries	Lack of knowledge on Masmin production	FLD, EDP, Training & Extension Activity
Vedharanyam – Vedaranyam	Ayakarpulam.	Rice, Pulses and Gingelly Groundnut,	High quail chicks mortality and Increased demand for J. quail meat.	FLD, EDP, Training & Extension Activity

block		Vegetable, Coconut, Poultry, Goat farming		
Vedharanyam – Vedaranyam block	Kuravapulam	Rice, Pulses and Gingelly Groundnut, Vegetable, Coconut, Poultry, Goat farming	High demand native chicken breed, Low income of rural area	FLD, Training & Extension Activity

### 3.2. Adopted villages

District/ Taluk / Block	Name of cluster village	Major crops & Enterprises	Major problems identified in each crop/enterprise	Proposed type of interventions
Nagapattinam Block	Akkaraipettai	Marine Fisheries	Lack of awareness of value added fishery products. Lack of knowledge of different method of Prawn pickle preparation. Low income of women and rural youth entrepreneurs.	OFT, FLD, Training, Method demonstrations and Awareness camp

### 3.3 DFI villages

District/Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identified in each crop/enterprise	Proposed type of interventions
Nagapattinam	Ponveli	Rice, Pulses, Livestock, Fisheries and Value addition	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New Variety Lack of scientific knowledge on feeding and management, poor growth performances High infestation of rice ear head bug Poor yield. Lack of awareness on IPM. Lack of awareness of value added fishery products. Low income of women and rural youth entrepreneurs. Lack of knowledge, poor performance of existing variety. Lack of /less popularization of Fish Wafers although huge demand in market.	OFT, FLD, Training, Method demonstrations and Awareness camp
Nagapattinam/Ki Ivelur	Agarakadam banur	Rice, Pulses and Livestock, Fisheries	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New	OFT, FLD, Training, Method demonstrations and Awareness camp

			Variety Non adoption of IPM practices, high infestation of viral disease and sucking pests Lack of carp polyculture practices. Low yield in carp culture. Lack of scientific fish culture methods Lack of feeding practice fishes. Unawareness on preparation of farm made feed	
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#### 4. Details of technological interventions

##### 4.1 Technology Assessment (OFTs) 2024-25

S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 TO-2 FP	Source of Technology TO-1 TO-2	Status*	No. of trials (replications)	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village(s)	No. of trials targeted under SC-SP
1.	Rice	Assessment of suitable Ragi varieties in Nagapattinam Dt.	ATL 1 CFMV 1 (Indravathi)	TNAU, 2020, ANGRAU, 2020	New	5	Rs.6,000	Dr. V. Kannan, SMS (Agronomy)  Dr. K. Chandrasekar, SMS (PP)	1	1
2.	Rice	Assessment of saline tolerant Rice varieties for Nagapattinam Dt	TRY 4, CSR 60, TRY 4	TNAU, 2021, CSSRI, 2018	New	5	Rs.10,000	Dr. V. Kannan, SMS (Agronomy)  Dr. K. Chandrasekar, SMS (PP)	1	1
3..	Groundnut	Assessment of suitable Groundnut varieties for Nagapattinam district	VRI 10, TCGS 1694, G7	TNAU 2022 ANGRAU, 2022	New	5	Rs.30,000	Dr. V. Kannan, SMS (Agronomy)  Dr. K. Chandrasekar, SMS (PP)	1	1
4	Brinjal	Assessment of Brinjal varieties for yield and market preference in Nagapattinam district.	TO-1- Cultivation of Brinjal variety CO 3	TNAU, 2024	New	5	5500	Mr.K.Ragu, SMS (Horticulture), Dr. K. Chandrasekar, SMS (PP)	0	0
			TO-2- Cultivation of Brinjal variety VRM 2	TNAU - 2021						
			FP- Cultivation of Brinjal Variety Poyyur local							
5	Chilli	Assessment of Chilli hybrids for yield and market preference	TO-1- Cultivation of Chilli hybrid ArkaDhriti	IIHR, 2024	New	5	12500	Mr.K.Ragu, SMS (Horticulture), Dr. K. Chandrasekar, SMS (PP)	0	0
			TO-2- Cultivation of Chilli hybrid CO1	TNAU-2010						
			FP- Cultivation of							



			local chilli varieties							
6	Lablab	Assessment of Bush type Lablab varieties for yield and market preference	TO-1- Cultivation of Bush type Lablab variety CO 16 TO-2- Cultivation of Bush type Lablab variety ArkaAmogh FP- Cultivation of Brinjal Variety Poyyur local	TNAU, Coimbatore - 2023 IIHR, 2021	New	5	15500	Mr.K.Ragu, SMS (Horticulture), Dr. K. Chandrasekar, SMS (PP)	0	0
7	Amaranthus	Assessment of Coloured Amaranthus varieties for yield and market preference in Nagapattinam district.	TO-1- Cultivation of Red Amaranthus variety CO 6 TO-1- Cultivation of Red Amaranthus variety ArkaArunima FP- Cultivation of Green AmaranthusMulaikeerai	TNAU, Coimbatore - 2024 IIHR, Bengaluru- 2020	New	5	5000	Mr.K.Ragu, SMS (Horticulture), Dr. K. Chandrasekar, SMS (PP)	0	0
8	Paddy	Assessment of IDM practices for the management of false smut disease in rice	<b>T1</b> - Seed treatment with carbendazim 2.0g/kg of seeds. Two sprays with Propiconazole 25 EC @ 500 ml/ha (or) Copper hydroxide 77 WP @ 500 g/ac at one week before boot leaf and during flowering stages <b>T2</b> - Spraying of Fluxapyroxad 62.5% + Epoxyconazole 62.5% (300 ml/ ac) followed by Trifloxystrobin 25% + Tebuconazole 50%	TO-1 TNAU, 2020 TO-2 - UAS Raichur 2020	New	5	11000	Dr.K.Chandrasekar SMS (Plant protection)	1	1

			(80 g/ac) OR Two sprays of Trifloxystrobin 25% + Tebuconazole 50% (80 g/ac) at booting stage [80 days after transplanting (DAT) and post flowering (100 DAT) stage <b>FP</b> - Spraying of COC 500 gram per acre alone, after the incidence							
9	Paddy	Assessment of Stem Borer Management Technologies in Paddy	<b>T1</b> - Clip the seedling tips before transplanting to eliminate egg masses. Install light trap @ 1 / ha, Pheromone trap @ 5 / ac. Release egg parasitoid, <i>Trichogra mma japonicum</i> @ 2cc /ac 3 times at weekly interval from 37 DAT Spray Azadirachtin 0.03% 400 ml/ac. Need based spraying of Chlorantraniliprole 18.5% SC 60 ml/ac <b>T2</b> - Release egg parasitoid, <i>Trichogra mma japonicum</i> @ 2cc /ac at 30 DAT Pheromone trap @ 8 / ac for mass trapping. Need based spraying of Chlorantraniliprole 18.5% SC 60 ml/ac <b>FP</b> - Spraying of Carbendazim 50%	TO-1 TNAU, 2023  TO-2 - NRRRI 2019	New	5	36650	Dr.K.Chandraseka r SMS (Plant protection)	1	1

			WP							
10	Pulses	Assessment of Pod Borers Management Technologies in Blackgram	<p><b>T1</b> - Sowing three rows of sorghum or maize seed using 250 g/ha around the field. Install Pheromone traps for <i>Helicoverpa armigera</i> @ 12/ha to monitor the population. Light trap @ 1/ha to attract and kill the adult moths. <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> @ 200 – 250 ml/ac. Need based application of Emamectin benzoate 5 SG @ 0.4g/l</p> <p><b>T2</b> - Install pheromone trap @ 5 /ha for monitoring of pest population. Spraying of <i>Bacillus thuringiensis</i> 5 WG @ 1.0 g/l Spray of Emamectin benzoate 5 SG @ 0.2 g/l or Rynaxypyr 20 SC @ 0.15 ml/l.</p> <p><b>FP</b> - Spraying of Profenophos 50 EC @ 2 ml/l/Lambda cyhalothrin 10 EC @ 1 ml/l</p>	TO-1 TNAU, 2023  TO-2 - NCIPM, 2019	New	5	24375	Dr.K.Chandrasekara SMS (Plant protection)	1	1
11	Cotton	Assessment of IPM modules against sucking pest complex in Cotton	<p><b>T1</b> - • Seed treatment with <i>Beauveria bassiana</i> @ 10 g/kg of seed +Soil application of neem</p>	TO-1 TNAU CPG, 2022  TO-2 - CICR, 2019	Second year	5	28500	Dr.K.Chandrasekara SMS (Plant protection)	-	1

			<p>cake @ 250 kg/ha</p> <ul style="list-style-type: none"> <li>• Yellow sticky trap @ 100 nos./ha</li> <li>• Release of Green lacewing @ 1 lakh eggs/ha at 30 DAS</li> <li>• Need based spraying of Azadirachtin1% EC @ 1000 ml/ha</li> <li>• Need based spraying of Diafenthiuron 50% WP @ 600 g/ha or Thiamethoxam25% WG @ 100g/ha</li> </ul> <p><b>T2</b> - Installation of Yellow sticky trap @ 8/acre</p> <ul style="list-style-type: none"> <li>• Maize as border crop</li> <li>• Spraying Azadirachtin1% EC</li> <li>• Spraying of <i>Lecanicillium lecanii</i> 10gm/l</li> </ul> <p>Need based spraying of Flonicamid 50 WG 4g/10litre of water</p> <p><b>FP</b> - Spraying of Profenofos 50.00% EC, Dimethoate 30 EC/ Imidacloprid 17.8 SL/Acephate 75.00% SP</p>							
12	Fisheries	Assessment of Polyculture of CIFA GI Scampi with Indian major carps	<p>TO1: CIFA-GI Scampi with IMC Fingerlings (Catla: rohu:GI Scampi) 53% higher growth rate, 68% higher</p>	CIFA, 2021	New	3	33,700	E.Hino Fernando, SMS (Fish Extn) and PC, KVK	-	1

			yield, fetched 13% higher farm gate price.  TO2: Non GI Scampi with IMC Fingerlings (Catla: rohu: Non GI Scampi)	CIFE 2017						
13	Fisheries	Assessment of Growth performance of two Tilapia strains in intensive fish culture	TO1: Stocking of Red Tilapia fry @ 100/m2.  TO2: Stocking of GIFT Tilapia fry @ 100/m2	TNJFU 2017  RGCA, 2011	New	3	24000	E.Hino Fernando, SMS (Fish Extn) and PC, KVK	-	1
14	Fisheries	Assessment of bio-floc incorporated feed to enhance the growth and disease resistance on <i>L.vannamei</i>	TO1: P. vannamei and disease resistance by biofloc using molasses and jiggery as a carbon source.  TO2: P. vannamei and disease resistance by biofloc using cassava as a carbon source	TNJFU 2018  CIBA, 2018	New	5	32000	Dr. A. Gopalakannan, PC, Mr. E. Hino Fernando and Dr. A. Mathivanan	1	1
15	Poultry	Assessment of Organic and Pro beads-EC effect on Japanese Quail chicks survivability	TO1: Panchakavya  TO2: Pro Beads- EC	TNAU 2012  TANUVAS 2018	New	5	37,500	Dr. A. Gopalakannan- Programme Coordinator and SMS- Animal Husbandry	1	1
16	Animal Husbandry –Goat rearing	Assessment of different salt licks on the growth performance of goat kids.	TO1: Mineralized salt lick for ruminants  TO2: Incorporation of AFTD (Aerated film dry	IAN- KKP, TANUVAS-2016,  IAN-KKP, TANUVAS-2020	OFT to FLD	5	8725	Dr. A. Gopalakannan- Programme Coordinator and SMS- Animal Husbandry	1	1

			technologies) salt in mineralized salt lick for ruminants							
17	IFS	Assessment of Intensive Integrated Farming system	TO1: Intensive Integrated Farming system.  TO2: Integrated Farming with inclusion of minimal animal husbandry practice	ICAR-NAIP New Delhi, 2018  CIFA 2015.	New	5	41500	Dr. A. Gopalakannan, Dr. V. Kannan and Mr. Ragu	1	1
18	Fishery By-products	Assessment of different methods of Organic Fish Granule Fertilizer preparation and their Quality Evaluation	TO-1: TNJFU method  TO-2: CARI method  FP: Conventional method	TNJFU, 2021  CARI, 2022	New	3	44205	Dr. A. Mathivanan, SMS (Fish Processing Technology)	1	2
19	Value Addition	Assessment of suitable Seaweed Species for Value Added Products preparation and their Quality Evaluation	TO-1: TNJFU method  TO-2: CIFT method  FP: Conventional method	TNJFU, 2022  CIFT, 2021	New	3	36900	Dr. A. Mathivanan, SMS (Fish Processing Technology)	1	1
20	Value Addition	Assessment of different Packaging Techniques of Dry fish and their Quality Evaluation	TO-1: CIFT method  TO-2: TNJFU method  FP: Conventional method	CIFT, 2022  TNJFU, 2020	New	3	45000	Dr. A. Mathivanan, SMS (Fish Processing Technology)	1	1
21	Value Addition	Assessment of different methods of Nutra Groundnut Chikki preparation and their Quality Evaluation	TO-1: CFTRI method  TO-2: TNAU method  FP: Conventional method	CFTRI, 2020  TNAU, 2020	New	3	21000	Dr. A. Mathivanan, SMS (Fish Processing Technology)	-	-

#### 4.2. Frontline Demonstrations (FLDs) 2024-25

S. No .	Category/ Crop or enterprise	Prioritized problem	Technologies Demonstration	Source of Technology	Status	No. of Demo (replications)	Area (ha)/ units	Total cost involved (Rs.)	Team members involved	No. of demos targeted in DFI village (s)	No. of demos targeted under SC-SP
1	Rice	Low yield of existing local varieties and unawareness of New Variety	Demonstration of Fine Grain Rice Variety CO 55 in Nagapattinam Dt.	TNAU, 2022	OFT to FLD	10	4.0	20,000	Dr. V. Kannan, SMS (Agronomy)	2	2
2	Rice	Low yield of existing local varieties and unawareness of New Variety	Demonstration of Newly Released Short duration Rice Variety ADT 59 in Nagapattinam Dt.	TNAU, 2024	New	10	4.0	20,000	Dr. V. Kannan, SMS (Agronomy)	2	2
3	Rice	Low yield of existing local varieties and unawareness of New Variety	Demonstration of Newly released medium duration Rice variety CO 56 in Nagapattinam Dt.	TNAU, 2021	New	10	4.0	20,000	Dr. V. Kannan, SMS (Agronomy)	2	2
4	Pulses-Greengram	Low yield of existing local varieties and unawareness of New Variety	Demonstration of Rice fallow Greengram VBN 6 in Nagapattinam Dt.	TNAU, 2023	New	10	4.0	16000	Dr. V. Kannan, SMS (Agronomy)	2	2
5	Cluster bean	Wilt incidence, Long statured plants Less number of pods, Low yield	Demonstration on Cluster bean variety MDU2	TNAU 2024	New	10	2.0	27000	SMS (Hort), SMS (PP)	1	-
6	Amaranthus	Lower plant population, Poor growth and low yield	Demonstration on Amaranthus variety PLR1	TNAU, 2013	OFT to FLD	10	2.0	10,000	SMS (Hort), SMS (PP)	1	-
7	Vegetables	Reduction of vegetable cultivation due to	Demonstration on Cocoponics in terrace gardening	IIHR, 2020	II year	10	0.5	30,000	SMS (Hort), PC	1	-

		urbanization. Water stagnation in low lands.  Not suitable for vegetable cultivation. Dependency on nearby districts for vegetables									
8	Marigold	Lesser size of flowers, Poor shelf life, Low yield.	Demonstration on Marigold Hybrid Arka Abhi for yield and income potential	IIHR 2020	OFT to FLD	10	1.0	35,000	SMS(Hort), SMS(PP)	1	-
9	Paddy	Yield loss >30% due to intrusion of wild boar	Demonstration of Wild Boar Bio Repellent	TNAU 2019	OFT to FLD	10	4.0	9,000.00	Dr.K.Chandra sekar SMS (Plant protection)	-	2
10	Sesame	Incidence of Stem rot infestation resulted yield loss of up to 25 % Indiscriminate use of combination of fungicides Lack of awareness about IDM	Demonstration on IPDM practices for Sesame	TNAU 2020	New	10	4.0	15,000.00	Dr.K.Chandra sekar SMS (Plant protection)	-	2
11	Groundnut	Incidence of Stem rot infestation resulted yield loss of up to 32% Indiscriminate use of combination of fungicides Lack of awareness about IDM	Demonstration of IPDM in Groundnut	TNAU 2020	OFT to FLD	10	4.0	20,000	Dr.K.Chandra sekar SMS (Plant protection)	-	2
12	Vegetables gourds	Yield loss >35%	Demonstration of IPM modules against	TNAU 2020	2nd Year	10	4.0	20,000	Dr.K.Chandra sekar SMS	-	2



			fruit fly in gourds						(Plant protection)		
13	Fisheries	Lack of alternated fish species for IMC culture. Improper feeding management for fishes. Lack of nutrients for plankton production in pond water	Demonstration of pangasius catfish for Inland fish culture	TNJFU,2016	New	3	0.3	21000	SMS (Fish Extn) & PC	1	1
14	Fisheries	Lack of feed based fish culture Lack of awareness on importance of feeding fishes for better growth rate Lack of proper nutrient in farm made feeds Poor pond bottom soil management	Popularization of formulated floating pellet feeds for freshwater fish culture	CAU, Imphal 2017	New	5	0.5	25000	SMS (Fish Extn) & PC	1	1
15	Fisheries	Lack of knowledge on Milk fish culture	Demonstration of Milk fish ( <i>Chanos channos</i> ) culture in farm ponds	CIBA, 2018	New	5	0.5	42500	Dr. A. Gopalakannan & Mr. E. Hino Fernando	1	1
16	Poultry	Lack of knowledge on Native chicken	Demonstration of Nandhanam B3 performance in Nagapattinam district.	TANUV AS 2017	New	5	-	21100	Dr. A. Gopalakannan , SMS- AH and Dr. V. Kannan	1	1
17	Poultry	Lack of knowledge on Pro beads	Demonstration of Pro Beeds – EC on backyard poultry survivability	TANUV AS2018	New	3	-	36600	Dr. A. Gopalakannan , PC and SMS, Animal Husbandry	1	1
18	Value Addition	1. Lack of awareness of value added Millet	Demonstration of Value Added Products from Millets	CFTRI, 2022	2 <sup>nd</sup> year	5	-	10,000-	Dr. A. Mathivanan, SMS (HS)	1	2

		products. 2. Lack of knowledge of method of value added Millet products preparation. 3. Lack of /less popularization of value added Millet products although huge demand in market. 4. Low income of women and rural youth entrepreneurs.	– Multi Millets Bread								
19	Value Addition	1.Lack of awareness of value added mango products. 2.Lack of knowledge of method of Mango RTS preparation. 3.Lack of /less popularization of Mango RTS although huge demand in market. 4.Low income of women and rural youth entrepreneurs.	Demonstration of Mango RTS Beverage Production	TNAU, 2021	New	5	-	10,500	Dr. A. Mathivanan, SMS (FPT)	2	2
20	Value Addition	1.Lack of awareness of value added Karuppu Kavuni rice products. 2.Lack of	Demonstration of Value Added Products from Traditional Rice – Karuppu Kavuni	CFTRI, 2022	New	5	-	17,500	Dr. A. Mathivanan, SMS (FPT)	1	1

		knowledge of method of Karuppu Kavuni rice products preparation.3.Lack of /less popularization of Karuppu Kavuni rice products although huge demand in market. 4.Low income of women and rural youth entrepreneurs.									
21	Value Addition	1. Lack of awareness of value added amla products. 2.Lack of knowledge of method of amla value added products preparation.3.Lack of /less popularization of amla value added products although huge demand in market. 4.Low income of women and rural youth entrepreneurs.	Demonstration of Amla Value Added Products for Entrepreneurship Development	TNAU, 2022	New	5	-	.20,000	Dr. A. Mathivanan, SMS (FPT)	1	2

### 4.3. Training Programmes 2024-25

#### 4.3.1 Details of trainings programmes for Farmers and Farm Women 2024-25

S.No	Thematic area	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
1	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
2	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
3	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
4	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
5	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
6	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
7	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
8	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
9	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
10	Crop Production	1	40	Dr. V. Kannan SMS (Agronomy)
11	Horticulture	1	40	K. Ragu SMS (Horticulture)
12	Horticulture	2	40	K. Ragu SMS (Horticulture)
13	Horticulture	1	40	K. Ragu SMS (Horticulture)
14	Horticulture	1	40	K. Ragu SMS (Horticulture)
15	Horticulture	1	40	K. Ragu SMS (Horticulture)
16	Horticulture	2	40	K. Ragu SMS (Horticulture)
17	Horticulture	2	40	K. Ragu SMS (Horticulture)
18	Horticulture	2	40	K. Ragu SMS (Horticulture)
19	Horticulture	1	40	K. Ragu SMS (Horticulture)
20	Horticulture	1	40	K. Ragu SMS (Horticulture)
21	Horticulture	1	40	K. Ragu SMS (Horticulture)
22	Livestock Production and Management	2	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
23	Livestock Production and Management	2	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)

24	Livestock Production and Management	2	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
25	Livestock Production and Management	2	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
26	Livestock Production and Management	1	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
27	Livestock Production and Management	1	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
28	Livestock Production and Management	1	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
29	Livestock Production and Management	2	30	Dr.A.Gopalkannan, PC and SMS(Animal Husbandry)
30	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)
31	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)
32	Home Science/Women empowerment	3	40	Dr. A. Mathivanan SMS (Home Science)
33	Home Science/Women empowerment	1	40	Dr. A. Mathivanan SMS (Home Science)
34	Home Science/Women empowerment	1	40	Dr. A. Mathivanan SMS (Home Science)
35	Home Science/Women empowerment	1	40	Dr. A. Mathivanan SMS (Home Science)
36	Home Science/Women empowerment	4	40	Dr. A. Mathivanan SMS (Home Science)
37	Home Science/Women empowerment	3	40	Dr. A. Mathivanan SMS (Home Science)
38	Home Science/Women empowerment	3	40	Dr. A. Mathivanan SMS (Home Science)
39	Home Science/Women empowerment	3	40	Dr. A. Mathivanan SMS (Home Science)
40	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)
41	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)
42	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)

43	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)
44	Home Science/Women empowerment	2	40	Dr. A. Mathivanan SMS (Home Science)
45	Plant Protection	2	40	Dr. K. Chandrasekar SMS (Plant Protection)
46	Plant Protection	2	40	Dr. K. Chandrasekar SMS (Plant Protection)
47	Plant Protection	2	40	Dr. K. Chandrasekar SMS (Plant Protection)
48	Plant Protection	2	40	Dr. K. Chandrasekar SMS (Plant Protection)
49	Plant Protection	1	40	Dr. K. Chandrasekar SMS (Plant Protection)
50	Plant Protection	2	40	Dr. K. Chandrasekar SMS (Plant Protection)
51	Plant Protection	2	40	Dr. K. Chandrasekar SMS (Plant Protection)
52	Fisheries	2	30	E. Hino Fernando SMS (Fisheries Extension)
53	Fisheries	2	30	E. Hino Fernando SMS (Fisheries Extension)
54	Fisheries	2	30	E. Hino Fernando SMS (Fisheries Extension)
55	Fisheries	1	30	E. Hino Fernando SMS (Fisheries Extension)
56	Fisheries	2	30	E. Hino Fernando SMS (Fisheries Extension)
57	Fisheries	1	30	E. Hino Fernando SMS (Fisheries Extension)
58	Fisheries	1	30	E. Hino Fernando SMS (Fisheries Extension)
59	Fisheries	1	30	E. Hino Fernando SMS (Fisheries Extension)
60	Fisheries	1	30	E. Hino Fernando SMS (Fisheries Extension)
61	Fisheries	2	30	E. Hino Fernando SMS (Fisheries Extension)

62	Capacity Building and Group Dynamics	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
63	Capacity Building and Group Dynamics	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
64	Capacity Building and Group Dynamics	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
	<b>TOTAL</b>	<b>105</b>	<b>2350</b>	

#### 4.3.2. Details of trainings programmes for Rural Youth2024-25

S. No	Area of training	No. of Courses proposed	No. of participants expected (including SC/ST farmers)	SMS involved
1	Nursery Management of Horticulture crops	2	30	Mr.K.Ragu, SMS (Horticulture)
2	Seed production	2	30	Dr. V. Kannan SMS (Agronomy)
3	Production of organic inputs	2	30	Dr. V. Kannan SMS (Agronomy)
4	Production of organic inputs	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
5	Planting material production	2	30	Mr.K.Ragu, SMS (Horticulture)
6	Mushroom Production	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
7	Bee-keeping	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
8	Sericulture	2	30	Dr. K. Chandrasekar SMS (Plant Protection)
9	Fish Handling	2	40	Dr. A. Mathivanan, SMS (Fish Processing Technology)
10	Fishing practices	1	40	Dr. A. Mathivanan, SMS (Fish Processing Technology)
11	Fish Handling	2	40	Dr. A. Mathivanan, SMS (Fish Processing Technology)
12	Value added seaweed products	3	40	Dr. A. Mathivanan, SMS (Fish Processing Technology)
13	Dairying	1	30	Dr.A.Gopalkannan, PC & SMS(AH)
14	Dairying	1	30	Dr.A.Gopalkannan, PC & SMS(AH)
15	Sheep and goat rearing	1	30	Dr.A.Gopalkannan, PC & SMS(AH)
16	Composite fish culture	1	30	E. Hino Fernando SMS (Fisheries Extension)

17	Fry and fingerling rearing	1	30	E. Hino Fernando SMS (Fisheries Extension)
	<b>Total</b>	<b>29</b>	<b>550</b>	

#### 4.3.4. Training programmes for Extension Personnel including sponsored training programmes 2024-25

S. No	Area of training	No. of Courses proposed	No. of participants expected (including SC/ST farmers)	SMS involved
1	Productivity enhancement in field crops	1	25	Dr. V. Kannan SMS (Agronomy)
2	Productivity enhancement in field crops	1	25	Dr. V. Kannan SMS (Agronomy)
3	Integrated Pest Management	1	25	Dr. K. Chandrasekar SMS (Plant Protection)
4	Protected cultivation technology	1	25	Mr.K.Ragu, SMS (Horticulture)
5	Production and use of organic inputs	1	25	Dr. V. Kannan SMS (Agronomy)
6	Management in farm animals	1	25	Dr.A.Gopalkannan, PC & SMS(AH)
7	Livestock feed and fodder production	1	25	Dr.A.Gopalkannan, PC & SMS(AH)
	<b>Total</b>	<b>7</b>	<b>175</b>	

#### 5. Targets for mandated activities for the year 2024-25

S.No.	Activities	Target (2024-25)
1.	On- farm trials (No. of technologies)	21
	On- farm trials (No. of locations)	37
2.	Frontline Demonstrations (No.)	21
	Frontline Demonstrations (No. of locations)	48
3.	Trainings for Farmers and Farm Women (No. of programmes)	64
	Trainings for Farmers and Farm Women (Participants) Nos.	2350
	Trainings for Rural Youth (No. of programmes)	17
	Trainings for Rural Youth (Participants (No.))	550
4.	Trainings of Extension Personnel (No. of programmes.)	7
	Trainings of Extension Personnel (Participants in Nos.)	175
5.	No. of Extension Activities(No. of activities)	1023
	Participants in Extension activities (in lakh)	0.20840
6.	Production of seed (in quintal) (Crop-wise)	50
7.	Production of planting materials (Nos.) (Crop-wise)	10000
8.	Live-stock strains and finger lings produced (in lakh)	0.27620
	Production of bio inputs and other inputs (Kg)	3600
9.	Kisan Mobile Advisory (KMA) (No. of messages)	6
	Kisan Mobile Advisory (KMA) (No. of farmers)	13000
10.	Soil testing using Mobile Soil Testing Kit (No. of samples)	300
	Soil testing in laboratory (No. of samples)	100
	Water sample Testing (samples in No.)	50
11.	Soil Health Card using Mobile Soil Testing Kit data (No. of Cards)	300



12.	Soil Health Card using Laboratory data (No. of Cards)	100
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### 6. Special Activities 2024-25

Activity or Programme	Seasons (Kharif/Rabi/Summer) / Physical assets created	Area (Ha)	Demos (No.)	Budget (Rs. lakhs)	Team members involved
<b>NFSM Pulses</b>					
Blackgram	Rabi	50	125	450000	Dr. V. Kannan, Dr. A. Gopalakannan Dr. K. Chandrasekar and Mr. K. Ragu,
Greengram	Rabi	50	125	450000	Dr. V. Kannan, Dr. A. Gopalakannan Dr. K. Chandrasekar and Mr. K. Ragu,
<b>NFSM Oilseeds</b>					
Groundnut	Rabi	30	75	360000	Dr. V. Kannan, Dr. A. Gopalakannan Dr. K. Chandrasekar Mr. K. Ragu and
<b>IFS</b>	-	-	-	-	-
<b>EDP</b>	Throughout year	-	5	36000	SMS (Fish Processing Technology) & PC
<b>FFS</b>	-	-	-	-	-
<b>NFDB</b>	-	-	-	-	-
<b>SERP</b>	-	-	-	-	-
<b>Any other</b>	-	-	-	-	-

### 7. Externally funded Activities (continuing / anticipated during 2024-25)

Activity or Programme	Program duration	Funding agency	Physical details (no. of programmes, participants, area etc.)	Financial outlay (Rs.lakh)	Team members involved
Skill training and Input distribution - IPDM in Groundnut under SCSP	One year 2024	ICAR-DGR	One programme – 30 members	5,32,000	Dr.K.Chandrasekar, SMS(PP), PC, Farm Manager, Prog. Asst. technical)
Skill Training - Beekeeping under ASCI	One year 2024	RKVY-GOI	One programme – 25 members	2,40,500	Dr.K.Chandrasekar, SMS(PP), PC, Farm Manager, Prog. Asst. technical)
Skill Training and input distribution - Use of Bio fertilizers and	One year 2024	ICAR-NAARM	One programme – 40 members	2,50,000	Dr.K.Chandrasekar, SMS(PP), PC, Farm Manager, Prog. Asst.

Bio pesticides under SCSP					(Technical)
<b>Total</b>				<b>1022500</b>	

**8. Date of SAC meeting conducted during 2023-24:**

Date of submission of proceedings of SAC meeting held in 2023-24: 24.04.2024

**9. Proposed date/month of SAC Meeting to be held in 2024-25:**

<b>State</b>	<b>Designated slot</b>	<b>Proposed month/week</b>
Tamil Nadu	2nd	March 2025

**10. Revolving fund status (2023-24)& expected revenue (2024-25) (Rs. in Lakhs):**

Opening balance as on 1 <sup>st</sup> April 2023	Receipts during 2023-24	Expenditure during 2023-24	Closing balance as on 31 <sup>st</sup> March 2024	Expected revenue (2024-25)
56,073	13,60,483	11,08,299	3,05,257	25,00,000

**11. Proposed Budget 2024-25**

S. No	Particulars	Budget Estimate for 2024-25
<b>A</b>	<b>RECURRING ITEMS</b>	
<b>1</b>	<b>Pay &amp; Allowances</b>	<b>14328354</b>
<b>2</b>	<b>Travelling Allowances</b>	
a	Field activities & programmes	<b>300000</b>
b	Training programmes	
<b>3</b>	<b>Contingencies</b>	
	Office Contingencies	
a	Stationery, telephone, stamps and other expenditure on office running	1000000
b	POL, repair of vehicles, tractor and equipment including hiring of vehicle	
<b>4</b>	<b>Technical Programmes</b>	
a	Rs.150/- per person per day towards food and refreshments for KVK training programmes for farmers/extension personnel	
b	Teaching materials for training and demonstrations	
c	Training of extension functionaries	
d	Publications of extension literature for farmers and extension functionaries	
e	Honorarium for trainers	
f	On Farm Testing (Problem Oriented)	
g	Front Line Demonstration on major crops including oilseeds & pulses, fodder crops, animal husbandry, fisheries, etc.,	3068005
h	Kisan Meals /Farmers Fair (at KVK farm)	
i	Library (Purchase of newspaper, journals, etc.,)	
j	Maintenance of farm	
k	Value chain management of FPO/Integrated Farming System (IFS)/Farmers Field School(FFS)	
l	Soil Health Card (SHC)	
m	Website/mobile app etc.	
	<b>Total of Contingencies</b>	<b>4068005</b>
	<b>Total of Recurring Items</b>	<b>18696359</b>
<b>B</b>	<b>NON-RECURRING ITEMS:</b>	
a	Works	500000
b	Vehicle (Jeep/Tractor/2 Wheeler)	200000
c	Furniture	100000

<b>S. No</b>	<b>Particulars</b>	<b>Budget Estimate for 2024-25</b>
d	TSP (creation of physical assets)	-
e	SCSP Component (Creation of Physical assets)	500000
	<b>Total of Non-Recurring Items</b>	<b>1300000</b>
	<b>GRAND TOTAL (A+B)</b>	<b>1,99,96,359</b>

Sd/-xxx  
Signature of the Senior Scientist and Head of the KVK