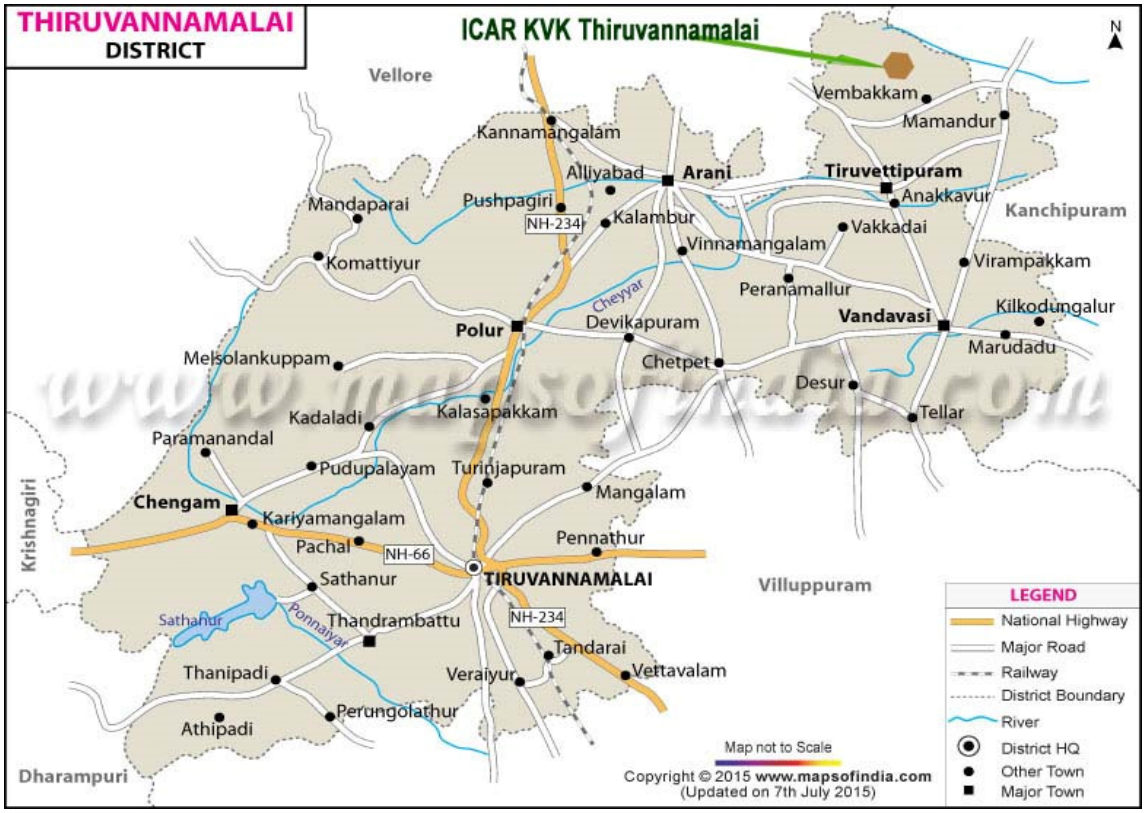
ACTION PLAN 2024-25

1. General information about the Krishi Vigyan Kendra

1.1 Name of the KVK	**ICAR - Krishi Vigyan Kendra**
Address	Kilnelli village, Chithathur post, Vembakkam Taluk, Thiruvannamalai District, Tamil Nadu – 604 410
Phone	04182 – 290551, +91 6384093303.
Fax	-
e-mail	kvktvmalai91@gmail.com
1.2. Name of host organization	**Tamil Nadu Board of Rural Development**,
Address	359, Kilnelli Village, Chithathur post, Vembakkam Taluk, Thiruvannamalai District, Tamil Nadu – 604 410
Phone	04182-291024
e-mail	tnbrd1978@gmail.com
1.3. Year of sanction	1991
1.4. Website of the KVK	www.kvkthiruvannamalai.com
Date of last update	06.05.2024

1.5. District map with location of the KVK : (12.75123, 79.61514)



2. Details of staff as on date (31-03-2024)

S. No	Sanctioned Post	Name	Discipline	Date of joining	Present Pay Scale
01	Senior Scientist and Head	Vacant	-	-	-
02	Subject Matter Specialist	Mr.V.Suresh	M.Sc., (Agricultural Extension)	20.01.2014	Level 10
03		Mrs.T.Margaret	M.Sc., M.Phil., (Home Science)	04.07.2003	
04		Mr.P.Narayanan	M.Sc., (Plant Pathology)	08.01.2014	
05		Dr.K.Mayakrishnan	M.V.Sc., (Veterinary Extension)	01.07.2019	
06		Miss.M.Ishwarya	M.Sc., (Agronomy)	10.03.2021	
07		Mr.R.Vijayakumar	M.Sc., (Horticulture)	01.02.2023	
08	Programme Assistant/T4-1	Mr.O.Sekar	MCA Computer Science	01.09.1997	Level 6
09	Programme Assistant/T4-2	Mr.P.Chowthry	B.Sc., Agriculture	02.02.2023	
10	Farm Manager/T4	Miss.M.Santhi	B.Sc., Agriculture	28.06.2019	
11	Administrative Staff 1 (Assistant)	Mrs.M.Viji	M.Com.,	01.02.1993	
12	Administrative Staff 2 (Stenographer Grade III)	Mr.K.Vasimalai	B.Com.,	01.02.2023	Level 4
13	Driver/T1 - 1	Mr.S.Janarthanan	VIII std	01.09.1993	Level 3
14	Driver/T1 - 2	Mr.T.Selvaraj	X std	01.01.1996	
15	Supporting Staff 1	Mr.T.Varadhan	V std	01.02.1994	Level 1
16	Supporting Staff 2	Mr.G.Selvam	IV std	01.07.1995	

3. Details of SAC meeting(s) conducted during 2023-24

Date(s) of SAC meeting(s) Conducted : 03.02.2024

Suggestions and recommendations of the SAC and Action Taken on the Recommendations

S. No.	Suggestions/ Recommendations	Name of the SAC Member	Action Taken in brief
1	KVK should promote natural farming practices and bio inputs among farmers. He also suggested that KVK should prepare a booklet containing all department schemes and circulate it to farmers during all its activities.	**Shri.S.Ramesh,** President, TNBRD, Chennai	Training and awareness programmes are planned in collaboration with other line departments. Booklet containing various department scheme also planned with the financial support of NABARD
2	KVK gives importance of promoting natural/organic farming and soil health management practices in the district. He also recommended that KVK ensure its activities cover all sections of farmers in the entire district.	**Dr. P.P.Murugan** Director of Extension Education, TNAU, Coimbatore.	A total of 8 Soil health campaigns are planned in various blocks. Necessary steps have been taken to implement KVK activities in all the blocks with the support of line departments.
3	KVK should identify 20 critical problems that affect farmers' income and agriculture development in the district. KVK should provide end-to-end solutions for the identified problems in the form of OFT/FLD and capacity building trainings to farmers, entrepreneurs and other stakeholders in collaboration with all the line departments. KVK should also develop more narratives/success stories for the impact-oriented activities implemented in the district. Furthermore, KVK should concentrate on promoting secondary	**Dr. Shaik N. Meera,** Director, ICAR ATARI, Zone X, Hyderabad	The critical problems will be identified in collaboration with all the line departments and it will be included in the action plan of KVK for the year 2024-25.

	agriculture practices like animal husbandry, particularly backyard poultry, sericulture, and fisheries to bring employment opportunities and livelihood changes for farmers and entrepreneurs.		
4	KVK should promote the use of agri drones involving rural youth. He recommended that KVK should provide more training on value addition in millets and promote newly released varieties in blackgram (VBN-11) and groundnut (VRI-10) in the district. Additionally, KVK should give fish farming training to beneficiaries who have farm ponds established by various stakeholders.	**Mr.C.Harakumar** Joint Director of Agriculture, Thiruvannamalai	Capacity building training for the rural youth planned in the forthcoming year and skill training on millet value addition for women SHG with the financial support of NABARD being already sanctioned. The KVK also included improved varieties of Blackgram and Groundnut in its action plan.
5	KVK may engage in the production and supply of organic inputs. He suggested that KVK should take up an awareness program on tapioca mealy bug with the concern line department.	**Dr.N.Muthukrishnan** The Dean, AC & RI, TNAU, Vazhavachanur, Thiruvannamalai.	KVK planned to establish organic inputs demo units for the commercial production and supply in the campus itself. Awareness programme on tapioca mealy bug also included in the forthcoming year.
6	KVK may promote multi-cut fodder varieties among farmers. He also suggested that KVK should create awareness on milking machines among dairy farmers.	**Dr. G.Somasundaram** Regional Joint Director, Department of Animal Husbandry, Thiruvannamalai.	KVK has been promoting COFS29, 31, Multi cut napier CO5 to the farmers for the past few years. Awareness on milking machine included in the animal science based activities.

7	KVK should organize an exposure visit to Poultry Research Station, Madavaram, Chennai, for farmers. She also suggested that KVK should concentrate on value addition in milk, meat, and egg.	**Dr. K. Premavalli,** Professor and Head, FTC, TANUVAS, Kanchipuram	Planned during 2024-25.
8	KVK should take up demonstrations on newly released millet varieties by CEM, Athiyandal. He also recommended that KVK should give importance to millet value-added products and utilize the services of CEM experts for the conduction of training programs.	**Dr.M.Vaithiyalingan** The Professor and Head, Centre of Excellence in Millets, Thiruvannamalai.	A total of four millet FLDs planned during 2024-25 which are released by CEM.
9	KVK should impart training on value-added products in millets for the FPOs in the district. He also recommended that KVK should create awareness on digital platforms established for the FPOs to enhance the marketing opportunities. Additionally, convergence programs should be taken up by KVK for the tribal families of Jawadhu hills in collaboration with other line departments.	**Mr.Vijay Neehar** The District Development Manager, NABARD, Chennai Metro cluster, Thiruvannamalai.	Planned during 2024-25.
10	KVK should utilize the services of bankers during its activities to create awareness on bank schemes available for farmers and SHGs.	**Mrs. S. Gowri** The Lead District Manager, Indian Bank, Thiruvannamalai.	Planned during 2024-25.

11	KVK should undertake demonstrations on power weeder	**Mr. R. Panchapakesan,** Executive Engineer, Agri Engineering, Thiruvannamalai	Awareness cum exposure visit is planned to Agricultural Engineering Department, Nandanam, Chennai.
12	KVK should demonstrate Nithya haritha groundnut variety and barnyard millet variety in Cheyyar and Vembakkam blocks.	**Mr. M. Shanmugam,** ADA, Department of Agriculture and Farmers Welfare, Vembakkam	Planned in the CFLD oilseeds programme and FLD programmes for the year 2024-25.
13	KVK should conduct training on crop diversification and should promote oil palm under dry land horticulture in collaboration with the Department of Horticulture and Plantation Crops. Additionally, IPM trainings should be conducted in coconut, watermelon, and brinjal. Awareness should also be created on wild boar management.	**Mr. N. Arulmani,** ADH, Department of Horticulture and Plantation Crops, Vembakkam,	Planned during 2024-25.
14	KVK should conduct flower-based value-added training programs.	**Mrs. E. Gayathri,** AO, Department of Agri-marketing and Agribusiness, Thiruvannamalai	Planned during 2024-25.
15	KVK should conduct training programs on recent technologies in fish farming.	**Mr.B.Vivek** Assistant Director, Fisheries and Fisherman Welfare, Vellore.	Planned during 2024-25.
16	Collaborative training programs should be organized with District Industrial Centre.	**Mr.K.Dhanapal** District Industrial Centre, Thiruvannamalai	Planned during 2024-25.

17	KVK should conduct training on low-cost household fish farming and promote millet cultivation in the district.	**Mr.K.V.Palani,** Farmer, Kalambur, Polur, Thiruvannamalai.	Planned during 2024-25.
18	KVK should prepare and circulate pamphlets on crop production technologies.	**Mr.M.Velayutham,** Farmer, Brammadesam, Vembakkam, Thiruvannamalai.	Planned during 2024-25.
19	KVK should organize an exposure visit to the Central Tuber Crop Research Institute, Trivandrum, Kerala.	**Mr. K. Karthikeyan,** Farmer, Mottur, Kalasapakkam, Thiruvannamalai	Will be arrange based on the financial position of KVK during Rabi 2024-25.
20	KVK should develop entrepreneurs in agri and related value-added products.	**Mr. P. Manimozhi,** Farm woman, Sorappathur, Thiruvannamalai,	An LEDP already sanctioned by NABARD to develop 60 entrepreneurs in the field of Agriculture. The training and demonstration is planned during May/June 2024.

Proposed date/month of SAC Meeting to be held in 2024-25 : 08.01.2025

4.0. Capacity Building activities planned for KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2024-25

S. No	Name of the Head/ SMS/Staff	Area of Training	Institution proposed to attend	Duration	Dates (dd/mm/yy)
1	V.Suresh, SMS and SS & Head	Innovations in Extension Approaches for Scaling Up Climate Smart Agriculture Technologies	Online, ICAR Central Research Institute for Dryland Agriculture, Hyderabad	5 days	23-09-24 to 27-09-24
2	Mrs.T.Margaret, SMS Home Science	Value Addition, Quality Assessment and Marketing of Dairy and Animal Products	Online, Acharya N. G. Ranga Agricultural University, Andhra Pradesh	3 days	03-09-2024 to 05-09-2024
3		Refresher Training Program on Opportunities for Value Addition in Horticultural Crop Produce	ICAR-Indian Institute of Horticultural Research Bengaluru	1 Day	September 2024
4	Mr.P.Narayanan, SMS Plant Protection	Recent advances in natural farming : Opportunities and Challenges	MANAGE, Hyderabad and National Research Centre for Integrated Pest Management, New Delhi	5 days	10-06-2024 to 14-06-2024
5		Agri entrepreneurship development in Plant Protection		4 days	22-10-2024 to 25-10-2024
6	Dr.K.Mayakrishnan, SMS Animal Science	Commercial Poultry Production and Management	ICAR Directorate of Poultry Research, Rajendranagar, Hyderabad	3 days	06-08-24 to 08-08-24
7	Miss.M.Ishwarya SMS Agronomy	Climate Smart Digital Agricultural	MANAGE, Hyderabad	5 days	05-08-24 to 09-08-24
8	Mr.R.Vijayakumar, SMS Horticulture	Advances in Spice Production by Good Agricultural Practices	Kerala Agricultural University, Cardamom Research Station, Idukki, Kerala	3 days	12.08.24 – 14.08.24

9		Profitable and Sustainable Vegetable Cultivation	Webinar with Indian Institute of Vegetable Research, Varanasi	1 day	27.09.24
12	Mr.O.Sekar, PA, computer programmer	Video production techniques for dissemination of information in Agriculture	MANAGE, Hyderabad	3 day	December 2024

5. Cross-learning across KVKs planned during 2024-25

S.No.	What expertise/ resources KVK can offer/ share to other KVKs		What you expect from other KVKs	
	Subject area/ resource/ expertise	**Mention Other KVK**	**Subject area/ resource/ expertise**	**Mention source KVK**
1	Vegetable Special supply	KVK Dharmapuri, Krishnagiri, Tirunelveli	Vermicompost production using molasses / Tribal Sub Plan project	KVK Perambalur, KVK Ariyalur
2	Integrated farming system	KVK Theni, Tuticorin	Innovative agriculture and horticulture techniques	Within the zone – KVK Kurnool
3	Supply of pulses, oilseeds, Native vegetable and Fodder seeds	KVK Coimbatore, KVK Krishnagiri	Organic agriculture	Outside zone – KVK Bengaluru Rural
4	Improved varieties in Millet	KVK Krishnagiri	Bio agents and organic inputs	KVK Pudhucherry

6 . Operational areas proposed during 2024-25

6.1. Details of operational area/cluster villages

District/ Taluk/Block	Major crops & enterprises	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected	Names of cluster Villages identified for intervention	Proposed intervention
Vembakkam	Paddy	Cultivation of old varieties, lack of awareness on season specific varieties, Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut and wild boar, rat and extensive use of chemical pesticides. Drudgery reduction.	1720	**Hasanamapettai** (Hasanamapettai Thenkalani, Pullavakkam, Karanthai, Arasankuppam Chettithangal)	OFT, FLD, FFS, Training, Extension activities.
	Groundnut	Cultivation of old varieties, Low yield, Less drought tolerant variety, Incidence of Root rot, leaf spot, rust, Leaf minor and Spodoptera, Wild boar damage, poor yield. Lack of knowledge on value addition.	778		
	Blackgram	Lack of knowledge on disease resistant variety, Low market price for small size and non-shiny seeds, Non synchronized maturity, Incidence of YMV, Aphids, and Powdery mildew. Post harvest management	138		
	Redgram	Prolonged cultivation of age old varieties, Low market price for small size and non-shiny seeds, Non synchronized maturity, Incidence of sterility mosaic virus, Aphids and Powdery mildew. More labour required for grading and, winnowing of pulses.	85		
	Tomato	Low yield, Flower drop, Lack of application of growth regulators, Lack of adoption of improved hybrids and technologies, Leaf curl in tomato, Poor quality seedlings. Low market price during On season. High Nutrient deficiency during growth period.	62		

	Bhendi	Lengthy time consuming process, crucial process during harvest (Thorny stems leads cuts injuries and rashes).	24		
	Goat	The ticks, fleas, sucking, biting lice and wound are major issues in Goat production. it will affect the feed intake in turn it will reduce the growth of animals.	350		
	Cow	Low milk production, Low milk fat, High disease incidence of mastitis. Lack of awareness on clean milk production.	47		
	Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency.			
	Fish	High mortality, Low yield, Lack of knowledge on fish farming.	22		
Cheyyar	Paddy	Cultivation of old varieties, lack of awareness on season specific varieties, Yield reduction. Lack of adoption of improved varieties, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides. Drudgery reduction	1770	**Siruveniyanallur** (Siruveninallur Athi, Duli, Karanai)	FLD, Training, Extension activities.
	Finger Millet	Lack of awareness on high yielding & drought tolerant variety, Lack of knowledge on value addition. Low market value for raw millets.	970		
	Redgram	Prolonged cultivation of age old varieties, Low market price for small size and non-shiny seeds, Non synchronized maturity, Incidence of sterility mosaic virus, Aphids and Powdery mildew. More labour required for grading and, winnowing of pulses.	92		
	Chilli	Low yield, Imbalanced nutrition, Lack of adoption of location specific hybrids, lack of knowledge on growth regulators, Flower drop, Low Dry Recovery and incidence of Fruit rot, Leaf curl. High incidence of leaf curl, mites, thrips and fruit borer.	85		

	Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency.	6738		
	Cow	Low milk production, High disease incidence of mastitis. Lack of awareness on clean milk production. Value addition.	47		
Vandavasi	Paddy	Cultivation of old varieties, Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides. Drudgery reduction.	1375	**Kilsembedu** (Maruthadu Amudur, Thensenthamangalam Kavaniyathur, Arungunam)	OFT, FLD, Training, Extension activities.
	Blackgram	Prolonged cultivation of age old varieties, Low market price for small size and non-shiny seeds, Non synchronized maturity, Incidence of YMV, Aphids, and Powdery mildew. More labour required for grading and, winnowing of pulses.	490		
	Ridge gourd, Bitter gourd, Snake gourd	Low fruit set, Maleness, Lack of adoption of location specific hybrids, Imbalanced nutrition, Lack of adoption of improved technologies, High incidence of mosaic, fruit fly, Sucking pests, Downy mildew and powdery mildew.	81		
	Water melon		68		
	Fruits and Vegetables	No value addition, Low market price, Lack of knowledge on value addition.	520		
	Herbal garden	Lack of awareness on medicinal plants cultivation and its usage for common ailment.	-		
	Goat	The ticks, fleas, sucking and biting lice are major issues in Goat production. it will affect the feed intake in turn it will reduce the growth of animals.	350		

	Cattle	Low milk production, High disease incidence. Infertility due to repeat breeding, Lack of awareness on clean milk production, Wounds by flies and Maggots occurs.	5450		
	Fodder	Feeding of low protein fodder for dairy animals Lack of awareness about cultivation of fodder crops.	271		
Thellar	Paddy	Cultivation of old varieties, lack of awareness on season specific varieties, Yield reduction. Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides. Lack of awareness on value addition, Low market price	1850	**Sorapathur** (Sorapathur, Sathyavadi, Nergunam, Senal)	OFT, FLD, Training, Extension activities.
	Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, rust, Leaf minor and Spodoptera, poor yield. Lack of knowledge on value addition.	1110		
	Bottle gourd	Low yield, Flower drop, Lack of application of growth regulators, Cultivation of local variety, Lack of adoption of improved hybrids and technologies, Imbalanced nutrition, Poor quality seedlings and field establishment. Low market price during on season. High incidence of fruit fly attack.	63		
	Brinjal	Low yield, Flower drop, Lack of application of growth regulators, Cultivation of local variety, Lack of adoption of improved hybrids and technologies, Incidence of shoot & fruit borer and little leaf, hadda beetle, Imbalanced nutrition, Poor quality seedlings and field establishment. Low market price during on season.	52		

	Millet	Lack of knowledge on improved variety and value addition. Low market value for raw millets.	125		
	Cattle	Low milk production, High disease incidence, Ecto parasites infestation, Infertility due to repeat breeding and Lack of awareness on clean milk production.	4300		
	Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency	2750		
Polur	Paddy	Cultivation of old varieties, lack of awareness on season specific varieties, Yield reduction. Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides.	2450	**Kalambur** (Kalambur, Athimoor, Padavedu, Senbagathope)	OFT, Training, Extension activities.
	Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Lack of awareness on non diary flavoured milk, Low market price	1050		
	Banana	Low bunch grade and weight, Fusarium wilt, Nematode incidence and Sigatoka leaf spot, Imbalanced nutrition, Lack of knowledge on improved planting methods, Lack of knowledge on value addition.	501		
	Tomato	Low yield, Flower drop, Lack of application of growth regulators, Cultivation of local variety, Lack of adoption of improved hybrids, Incidence of pin worm, white fly, wilt, nematode, Early leaf blight, Tospo virus. Imbalanced nutrition.	92		
	Goat	Lack of knowledge scientific goat rearing, High kid mortality, Low body weight gain, Infertility problem.	8030 Nos		

Kalasapakkam	Paddy	Cultivation of old varieties, lack of awareness on season specific varieties, Yield reduction. Lack of adoption of improved varieties, lack of awareness on IPDM, Severe infestation of Brown plant hopper, BLB, stem borer, leaf folder, Tungro, False smut, wild boar.	1950	**Pathiyavadi** (Vilvarani, Veeralur, Pathiyavadi, Kapalur)	OFT, FLD, Training, Extension activities.
	Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, rust, Leaf minor and Spodoptera, poor yield. Lack of knowledge on value addition.	475		
	Blackgram	Prolonged cultivation of age old varieties, Low market price for small size and non-shiny seeds, Non synchronized maturity, Incidence of YMV and Aphids. More labour required for grading, winnowing of pulses.	350		
	Finger millet	Cultivation of old varieties ,Lack of awareness on high yielding & drought tolerant variety, High incidence of Blast disease , Low yield, Lack of knowledge on value addition. Low market value for raw millets.	86		
	Tuberose	Low yield, Non adoption of improved production technologies and varieties, High incidence of nematode, Mealy bug and Sucking pests.	16		
	Sugarcane	Low yield due to water scarcity, Lack of awareness on irrigation schedule, Lack of awareness on value addition	186		
Arni	Paddy	Cultivation of old varieties, lack of awareness on season specific varieties, Yield reduction. Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides.	1820	**Athanur** (Anjiputhur, Thachur, Mattathari)	OFT, FLD, Training, Extension activities.

	Turmeric	Shortage of quality seed rhizomes, Imbalanced nutrition and incidence of leaf spot, rhizome rot, sucking pest and lack of knowledge on IDM practices.	92		
	Bhendi	Low yield, Imbalanced nutrition, Non adoption of improved technologies, Yellow vein Mosaic Virus. Lengthy time consuming process, crucial process during harvest (Thorny stems leads cuts injuries and rashes).	52		
	Brinjal	Low yield, Flower drop, Lack of application of growth regulators, Cultivation of local variety, Lack of adoption of improved hybrids and technologies, Incidence of shoot & fruit borer and little leaf, hadda beetle, Imbalanced nutrition, Poor quality seedlings and field establishment. Low market price during on season.	90		
	Fodder	Feeding of low protein fodder for dairy animals Lack of awareness about cultivation of fodder crops.	310		
	Cattle	Low milk production, High incidence of milk fever, Infertility due to repeat breeding and Lack of awareness on clean milk production.	4300		
	Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency, Low body weight gain.	220		
	Nutritional security - Herbal	Wide spread prevalence on macro and micronutrient deficiency, Lack of awareness on linkage between sanitation, health and nutrition.	-		

Chetpet	Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, leaf minor and Spodoptera, poor yield. Lack of knowledge on value addition.	830	**Vallam** (Vallam, Kilvelliyur Mattapiraiyur, Sanikkavadi)	FLD, Training, Extension activities
	Chilli	Low yield, Imbalanced nutrition, Lack of adoption of location specific hybrids, Flower drop, Low Dry Recovery and incidence of Fruit rot, Leaf curl. High incidence of leaf curl, mites, thrips and fruit borer.	93		
	Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency, Low body weight gain.	220		
Kilpennathur	Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, rust and Spodoptera, poor yield. Lack of knowledge on value addition.	652	**Vettavalam** (Vettavalam, Manavaram Vanapuram)	OFT, FLD, Training, Extension activities
	Pulses	Lack of awareness on storage methods, high incidence of storage pests.	320		
	Millet	Lack of knowledge on improved variety and value addition. Low market value for raw millets.	125		
	Brinjal	Flower drop, Cultivation of local variety, Lack of adoption of improved hybrids and technologies, Incidence of shoot & fruit borer and little leaf, Imbalanced nutrition. Low market price.	97		
	Cassava	Low yield, Lack of adoption of location specific varieties, Imbalanced nutrition, Mealy bug, White fly, Mosaic virus.	196		
	Milk	Distress sale of milk, Lack of awareness in processing, Low shelf life, Bland flavour of paneer , Lack of variety in paneer.	18100 Nos		

All blocks	Sugarcane	Low yield due to water scarcity, Lack of awareness on irrigation schedule, Lack of awareness on value addition	504	All cluster	Training, Extension activities
All blocks	Goat & Sheep	Low body weight, High mortality, High morbidity.	9508 Nos	All cluster	Training, Extension activities
All blocks	Milk	Distress sale of milk, Lack of awareness in processing, Low shelf life, Bland flavour of paneer, Lack of variety in paneer.	18550 Nos	All clusters	Training, Extension activities
All blocks	Fruits and Vegetables	No value addition, Low market price, Lack of knowledge on value addition.	-	All clusters	Training, Extension activities
All blocks	Medicinal plants	Lack of adoption of improved production and post harvest management technologies.	178	All clusters	Training, Extension activities

6.2. Details of adopted villages

District/Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identifies in each crop/enterprise	Proposed type of interventions
Thiruvannamalai district	Sathupperipalayam Vazhur, Padavedu, Kilnelli, Palli	Paddy	Cultivation of old varieties, High infestation of pest &diseases BPH, Stem borer, Tungro, BLB and Blast, High incidence of pest and disease, Yield reduction. No value addition.	Training, Extension activities, Special programme
		Millet	Cultivation of old varieties, Lack of awareness on high yielding & drought tolerant variety, High incidence of Blast disease, Low yield, Lack of knowledge on value addition. Low market price.	Training, Awareness programme
		Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, rust and Spodoptera, poor yield. Lack of knowledge on value addition.	Training, Special programme
		Blackgram	Prolonged cultivation of age old varieties, Non synchronized maturity, Incidence of YMV, Aphids, and Powdery mildew. More labour required for grading and, winnowing of pulses.	FLD, Training and Extension activities
		Tomato	Low yield, Flower drop, Lack of application of growth regulators, Cultivation of local variety, Lack of adoption of improved hybrids and technologies, Leaf curl in tomato, Imbalanced nutrition, Poor quality seedlings and field establishment. No value addition.	OFT, Training and Extension activities
		Banana	Low bunch grade and weight, Fusarium wilt, Nematode incidence and Sigatoka leaf spot, Imbalanced nutrition, Lack of knowledge on improved planting methods, Lack of knowledge on value addition.	Training, Extension activities
		Cow	Low milk production, High disease incidence. Infertility due to repeat breeding, Lack of awareness on clean milk production.	Training, Extension activities
		Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency.	

6.3. Details of DFI villages

District/ Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identifies in each crop/enterprise	Proposed type of interventions
Vandavasi	Kilsembedu	Paddy	Cultivation of old varieties, Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides.	Training and Extension activities
		Blackgram	Low market price for small size and non-shiny seeds, Non synchronized maturity, Incidence of YMV, Aphids, and Powdery mildew. More labour required for grading.	Training and Extension activities
		Gourds	Low fruit set, Maleness, Lack of adoption of location specific hybrids, Imbalanced nutrition, Lack of adoption of improved technologies, High incidence of mosaic, fruit fly, Sucking pests, Downy mildew and powdery mildew.	FLD, Trainings and Extension activities
		Cattle	Low milk production, High disease incidence. Infertility due to repeat breeding, Lack of awareness on clean milk production, Wounds by flies and Maggots occurs.	Training and Extension activities
		Herbal garden	Lack of awareness on medicinal plants cultivation and its usage for common ailment.	FLD, Training and Extension activities
		Fodder	Feeding of low protein fodder for dairy animals, Lack of awareness about cultivation of fodder crops.	Training and Extension activities

Arni	Athanur	Paddy	Cultivation of old varieties, Yield reduction. Lack of adoption of improved varieties, low yield, lack of awareness on IPDM, Severe infestation of Brown plant hopper, Blast, BLB, stem borer, leaf folder Gall midge, Tungro, False smut, wild boar & extensive use of chemical pesticides.	OFT, Trainings, Extension activities
		Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, leaf minor and Spodoptera, poor yield. Lack of knowledge on value addition.	Trainings, Extension activities
		Turmeric	Shortage of quality seed rhizomes, Imbalanced nutrition and incidence of leaf spot, rhizome rot, sucking pest and lack of knowledge on IDM practices.	Trainings, Extension activities
		Bhendi	Low yield, Imbalanced nutrition, Non adoption of improved technologies, Yellow vein Mosaic Virus. Lengthy time consuming process, crucial process during harvest (Thorny stems leads cuts injuries and rashes).	Training, Extension activities
		Fodder	Feeding of low protein fodder for dairy animals Lack of awareness about cultivation of fodder crops.	Trainings, Extension activities
		Poultry	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency, Low body weight gain.	Trainings, Extension activities
		Mushroom	Lack of awareness on ready to use mushroom product, Low market price during on-season	Trainings, Extension activities

7. Summary (targets) of mandated activities planned for the year 2024-25

S.No.	Activities	Target
1. On- farm trials		
	a. No of OFTs	14
	b. No of Technologies (Total new technologies except FP)	28
	c. No. of locations (No. of Villages)	14
	d. No. of Beneficiaries (No. of Farmers fields)	70
	e. Area (Total area in ha)	23
2. Frontline Demonstrations		
	a. No. of FLDs	19
	b. No. of Locations (No of villages)	19
	c. No. of Beneficiaries (No of Farmers fields)	175
	d. Area (Total Area planned in ha)	40
3. Trainings for Farmers and Farm Women		
	a. No. of programmes	120
	b. No. of participants	2400
4. Trainings for Rural Youth		
	a. No. of programmes	16
	b. No. of participants	320
5. Trainings of Extension Personnel		
	a. No. of programmes	10
	b. No. of participants	250
6. Extension Activities		
	No. of activities	232
	No. of participants	7225
7. Production of seed (in quintals)		
Paddy ADT-36, CO55		67
Groundnut TMV(Gn)14		7
Groundnut TCGS 1694		10
Redgram BRG1		0.5
Blackgram		0.5
Fodder seeds		5
Native vegetable seeds		0.5
8. Production of planting materials (in Nos.)		
Fruit plants		1200
Coconut seedlings		300

Forest Tree seedlings		1000
Fodder setts		5000
9. Production of live-stock strains and finger lings (Category wise Nos.)		
Goat		25
Poultry Chicks- Desi bird		1000
Japanese quail		1000
10. Production of bio inputs (quantity in kg) (Item-wise in Qtl)		
Trichoderma asperellum		5
Bacillus subtilis		5
11. Production of other inputs (specify unit) (Item-wise in Qtl)		
Vermicompost		90
Vermiworms		0.5
Azolla		1
Spawn		0.5
Vegetable Special (kg)		3
12. Kisan mobile advisories		
	No. of messages	25
	No. of technologies	25
	No. of farmers	27000
Other mobile advisories		
	No. of messages	30
	No. of technologies	30
	No. of farmers	45000
13. Soil testing		
	No. of soil sample testing using Mobile Soil Testing Kit	100
	No. of soil sample testing in conventional laboratory	700
Water sample Testing (samples in No.)		100
Soil Health Cards		
	No. of Cards using Mobile Soil Testing Kit data	100
	No. of Cards using Laboratory data	800

8. Technology Assessments proposed during 2024-25

8.1. Summary of OFTs

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	Finger millet	Assessment of Finger millet varieties for higher yield	**TO1:** Finger millet variety ATL 2 **TO2:** Finger millet variety CFMV 1 **FP:** Local Variety	TO1: TNAU 2024 TO2: ANGRAU, 2020	New	5	7500.00	SMS-Agronomy, SMS- Plant Protection, Senior Scientist and Head.	-	5
2	Blackgram	Assessment of Drought management strategies for improving yield in Blackgram	**TO1:** Seed inoculation with plant probiotics @125ml/ha of seed and mycorrhizal fungal spore at 1 gram/kg of seed and rhizobium @ 100g/acre of seed **TO2:** PPFM seed treatment @ 100g/5kg **FP:** No seed treatment	TO1: TNAU 2022 TO2: TNAU 2020	New	5	17500.00	SMS-Agronomy, SMS- Plant Protection, Senior Scientist and Head.	-	5

3	Blackgram	Assessment of Finger millet intercropping with blackgram	**TO1:** Finger millet inter cropping with black gram (1:1) **TO2:** Finger millet inter cropping with black gram (2:1) **FP:** Sole crop	TO1: TNAU, 2020 TO2: TNAU, 2020	New	5	8325.00	SMS-Agronomy, SMS- Plant Protection, Senior Scientist and Head.	5	-
4	Maize	Assessment of Maize hybrid varieties for higher productivity	**TO1:** Maize Hybrid COH(M)11 **TO2:** Maize BRMH 8 **FP:** Private Hybrid	TO1: TNAU – 2023 TO2: VRDC, Karnataka 2021	New	5	18250.00	SMS-Agronomy, SMS- Plant Protection, Senior Scientist and Head.	5	-
5	Brinjal	Assessment of Brinjal varieties for higher productivity	**TO1:** Arka Neelanchal Shyama **TO2:** MDU 2 **FP:** Local cultivars	**TO1:** CHES, Bhubaneswar, 2019 **TO2:** TNAU, 2021	New	5	9500.00	SMS-Horticulture, SMS- Plant Protection, Senior Scientist and Head.	-	5
6	Tomato	Assessment of improved Tomato hybrids for higher productivity	**TO1:** COTH 4 **TO2:** Arka Aditya **FP:** Local hybrids	**TO1:** TNAU,2020 **TO2:** IIHR,2020	New	5	15500.00	SMS-Horticulture, SMS- Plant Protection, Senior Scientist	-	-

7	Bhendi	Assessment of Bhendi hybrids for increased productivity	**TO1:** Arka Aditya **TO2:** COBH 4 **FP:** Local cultivar	**TO1**:IIHR, 2017 **TO2:** TNAU, 2017	New	5	19000.00	SMS-Horticulture, SMS- Plant Protection, Senior Scientist	-	5
8	Cassava	Assessment of nutrient formulation for higher productivity in cassava	**TO1:** TNAU Cassava Booster **TO2:** Cassava special **FP:** Application of NPK fertilizer	**TO1:** TCRS, Yethapur 2019 **TO2:** CTCRI, 2021	New	5	16200.00	SMS-Horticulture, SMS- Plant Protection, Senior Scientist	-	-
9	Paddy	Assessment of IDM practices for the management of false smut disease in rice	**TO1 :** Seed treatment with carbendazim 2.0g/kg of seeds. Foliar spraying of Azoxystrobin 7.1% + Propiconazole 11.9 % W/W SE @ 500 ml/ha at tillering and early booting stage. **TO2 :** Spraying of Fluxapyroxad 62.5% + Epoxyconazole62.5% (300 ml/ ac) followed by Trifloxystrobin 25% + Tebuconazole	**TO1 :** TNAU 2022 **TO2 :** UAS Raichur 2020	1st Year	5	11000.00	SMS- Plant Protection, SMS-Agronomy, Senior Scientist and Head.	-	5

			50% (80 g/ac) Two sprays of Trifloxystrobin 25% + Tebuconazole50% (80 g/ac) at booting stage and post flowering stage **FP :** Spraying of COC 500 gram per acre alone, after the incidence							
10	Groundnut	Assessment of IDM practices for Groundnut root rot disease	**TO1-** Summer ploughing Seed treatment with Carbendazim @2 g/kg of seed, Soil application of *Bacillus subtilis* and *Trichoderma asperellum* @ 2.5 kg/ha, mixed with 50 kg FYM on 30 DAS, Soil drench with carbendazim @ 1 g / l **TO2**- Summer ploughing Seed Treatment with Tebuconazole 2DS @ 1.5 g/kg of seed. Soil application of *Trichoderma asperellum* @ 4	**TO1:** TNAU CPG, 2020 **TO2:** DGR 2018	New OFT	5	10500.00	SMS- Plant Protection, SMS- Agronomy, Senior Scientist and Head.	-	5

			kg/ha with enriched 250 Kg, FYM first at the time of sowing, 35 and 70 DAS. **FP:** Spraying of Carbendazim 50% WP							
11	Tomato	Assessment of biological methods for management of root knot nematode in Tomato	**TO-1 :** Nursery beds treated with antagonists (*Trichoderma harzianum, Purpureocillium lilacinum*) @ 50g/m2, Soil application of *Purpureocillium lilacinum* @ 10 kg/ha, Drenching of fungal (*T. harzianum, T. asperellum, P. lilacinum)* and bacterial antagonists (*Bacillus subtilis*) @ 0.5% at regular interval of 30 days after transplanting. **TO-2 :** Soil solarization before preparation of nursery bed Seed Treatment - *Trichoderma*	**TO1:** IIVR, 2017 **TO2:** TNAU CPG 2020	New OFT	5	12500.00	SMS – Plant protection, SMS – Horticulture, Senior Scientist and Head.	-	-

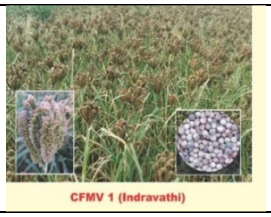
			asperellum @ 4g/kg, Pressmud @ 5kg/m2 or *Purpureocillium lilacinum* @ 10g/kg of seed Soil application of *P. lilacinum* @ 50g/m2. **FP:** Application of carbofuron 10 kg/ha.							
12	Tuberose	Assessment of bioinoculants against tuberose root knot nematode	**TO-1 :** Apply *Pocchonia chlamydosporia* as bulb treatment @ 1kg/ha, Soil application *Pocchonia chlamydosporia* @ 2.5kg/ha mixed with 100kg FYM or apply Carbofuran 3 G @ 1 g/plant near the root zone and irrigate immediately. **TO-2 :** Soil application of bio pesticides enriched FYM @ 5 tons/ha before planting (For enrichment process, mix 2 kg each of *Trichoderma viride*,	**TO1:** TNAU, 2020 **TO2:** IIHR 2016 -	New OFT	5	9000.00	SMS – Plant protection, SMS – Horticulture, Senior Scientist and Head.	-	-

			Bacillus subtilis and *Purpureocillium lilacinumin* 1 ton of FYM) **FP:** Application of chemical pesticides.							
13	Cow	Assessment of anionic powder for milk fever in High yielding milch cow	**TO1:** TANUVAS PAM 21 **TO2:** Anionic Mishran AFS. **FP :** No Feeding of Anionic powder	**TO1:** TANUVAS 2021 **TO2:** NDRI, Karnal 2020	New OFT	5	16500.00	SMS-Animal Science, Senior Scientist and Head.	-	5
14	Cow	Assessment of Milk fat modulator in milch cow	**TO1:** OmeB supplement **TO2:** Samvridhi : Feed supplement **FP :** Feeding of only Concentrated feed	**TO1:** NIANP, 2022 **TO2:** NDDB, 2022.	New OFT	5	18000.00	SMS-Animal Science, Senior Scientist and Head.	-	5
Total					-	**70**	**189275.00**	-	**10**	**40**

8.2. Details of OFTs

1. Assessment of Finger millet varieties for higher yield

OFT No.	01
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Millets
Crop/ enterprise	Finger millet
Farming situation	Rainfed, Sandy loam
Prioritized problem (short)	Lack of awareness on high yielding & drought tolerant variety, ackL of knowledge on value addition. Low market value for raw millets.
Title of the OFT	**Assessment of Finger millet varieties for higher yield**
Technology options	
TO-1	**Finger millet variety ATL 2**
Source and year	TNAU 2024
Description (short)	The Duration is 110-115 days, The Grain yield is 2717 kg/ha, It moderately Resistant to leaf, neck and finger blasts. It is resistant to Brown spot and Grain Mold and Moderately tolerant to Mylocerous weevil
Potential yield/income	20-25q/ha
Critical Inputs	ATL 2 seed – 12.5 kg, *Trichoderma asperellum* – 2.5 kg, *Bacillus subtilis* – 2.5kg, Field board - 5 nos
Source of Inputs	TNAU, Coimbatore and KVK, Kilnelli
Photos	
TO-2	**Finger millet variety CFMV 1**
Source and year	ANGRAU 2020
Description (short)	The duration is 105-110 days. Non lodging and resistant to finger blasts, foot rot and banded blight, The yield is 32-34 q/ha
Potential yield/income	Eg.25 to 30 q/ha
Critical inputs& quantity and cost	CFMV 1 – 12.5 kg, *Trichoderma asperellum* – 2.5 kg, *Bacillus subtilis* – 2.5kg
Source of Inputs	ANGRAU and KVK, Kilnelli

Photos	
Farmers Practice	Cultivation of local varieties
Farmers yield	15 q/ha
Season	Rabi
Cost per replication (Rs.)	Rs.1500.00
No. of replications	5
Total cost for the OFT	**Rs.7500.00**
Parameters to be studied	Plant population, No. of fingers per plant, Yield-Q/ha.
Parameters to be reported	Yield (Q/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS, (Agronomy), SMS (Plant Protection), Senior Scientist and Head

2. Assessment of Drought management strategies for improving yield in Blackgram

OFT No.	02
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Crop Production and Management
Category (if applicable)	Pulses
Crop/ enterprise	Blackgram
Farming situation	Rainfed, Sandy loam
Prioritized problem (short)	Inavailability of sufficient water leads to drought condition and Poor yield
Title of the OFT	**Assessment of Drought management strategies for improving yield in Blackgram**
Technology options	
TO-1	Seed inoculation with plant probiotics @125ml/ha of seed and mycorrhizal fungal spore at 1 gram/kg of seed and rhizobium @ 100g/acre of seed
Source and year	TNAU 2022
Description (short)	Plant probiotics stains with mycorrhiz and rhizobium enhaced 14% of higher yield and mitigate drought conditions
Potential yield/income	15q/ha
Critical Inputs	Blackgram Seed - 10 kg, Probiotics– 1 litres, VAM-250 g, Rhizobium- 1 litres Field board - 5 nos

Source of Inputs	TNAU, Coimbatore and Dept. of Agriculture
Photos	  
TO-2	**PPFM seed treatment @ 100g/5kg**
Source and year	TNAU 2020
Description (short)	It fastens seed germination and seedling growth, accelerate vegetative growth, earliness in flowering, fruit set and maturation, yield increase by 10% and mitigate drought
Potential yield/income	12 q/ha
Critical inputs& quantity and cost	Blackgram Seed - 10 kg, PPFM – 500 g
Source of Inputs	TNAU, Coimbatore and KVK, Kilnelli
Photos	
Farmers Practice	No seed treatment
Farmers yield	8q/ha
Season	Rabi
Cost per replication (Rs.)	Rs.3500.00
No. of replications	5
Total cost for the OFT	**Rs.17500.00**
Parameters to be studied	Plant population, No. of pods/plant, Yield
Parameters to be reported	Yield (Q/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS, (Agronomy), SMS (Plant Protection), Senior Scientist and Head

3. Assessment of Finger millet intercropping with blackgram

OFT No.	03
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Crop Production and Management
Category (if applicable)	Millet and Pulses

Crop/ enterprise	Finger millet and Blackgram
Farming situation	Irrigated , Clay loam
Prioritized problem (short)	Lack of adoption of intercrops system and low yield due to crop failure
Title of the OFT	Assessment of Finger millet intercropping with blackgram
Technology options	
TO-1	Finger millet intercropping with black gram (1:1)
Source and year	TNAU 2020
Description (short)	Due to temporal and spatial complementary effect the crop grown in association giving corresponding yield advantages
Potential yield/income	32q/ha
Critical Inputs	Finger millet ATL 1 Seed- 2.5 kg, Blackgram VBN 8 Seed - 10 kg, *Bacillus subtilis* -5 Kg, *Trichoderma asperellum* - 5 Kg, Field board - 5 nos
Source of Inputs	TNAU, Coimbatore and KVK, Kilnelli
Photos	
TO-2	Finger millet intercropping with black gram (2:1)
Source and year	TNAU 2020
Description (short)	Due to temporal and spatial complementary effect the crop grown in association giving corresponding yield advantages
Potential yield/income	39q/ha
Critical inputs& quantity and cost	Finger millet ATL 1 Seed- 2.5 kg, Blackgram VBN 8 Seed - 10 kg, *Bacillus subtilis* -5 Kg, *Trichoderma asperellum* - 5 Kg
Source of Inputs	TNAU, Coimbatore and KVK, Kilnelli
Photos	
Farmers Practice	Conventional (Sole crop)
Farmers yield	43q/ha
Season	Kharif
Cost per replication (Rs.)	Rs.1665.00
No. of replications	5
Total cost for the OFT	**Rs.8325.00**

Parameters to be studied	No. of fingers per plant, No. of pods/plant, Yield
Parameters to be reported	Yield (Q/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS, (Agronomy), SMS (Plant Protection), Senior Scientist and Head

4. Assessment of Maize Hybrid varieties for higher productivity

OFT No.	04
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Cereals
Crop/ enterprise	Maize
Farming situation	Irrigated, clay loam
Prioritized problem (short)	Poor yield and lack of awareness on high yielding varieties, High incidence of pest and disease
Title of the OFT	**Assessment of Maize Hybrid varieties for higher productivity**
Technology options	
TO-1	**Maize Hybrid COH(M)11**
Source and year	TNAU – 2023
Description (short)	The duration of the variety is 105 – 110 days. The yield under Irrigated condition is 8100 kg/ha and Rainfed is 6590 kg/ha. It is Drought tolerant and has Better fodder qualities
Potential yield/income	70-80q/ha
Critical Inputs	COH (M) 11 seed - 25 kg, *Trichoderma asperellum* – 2.5 kg, *Bacillus subtilis* – 2.5kg, Field board - 5 nos
Source of Inputs	TNAU, Coimbatore and KVK, Kilnelli
Photos	
TO-2	**Maize BRMH 8**
Source and year	VRDC, Karnataka 2021
Description (short)	Full maturity single cross Hybrid, semi-dent, yellow grain color. Widely adapted , High Yielding 32-35 Quintals/Acre
Potential yield/income	Eg.75 to 80 q/ha
Critical inputs& quantity and cost	BRMH 8 seed – 25kg, *Trichoderma asperellum* – 2.5 kg, *Bacillus subtilis* – 2.5 kg
Source of Inputs	VRDC, Karnataka and KVK, Kilnelli

Photos	
Farmers Practice	Cultivation of old varieties
Farmers yield	45 q/ha
Season	Kharif
Cost per replication (Rs.)	Rs.3650.00
No. of replications	5
Total cost for the OFT	**Rs.18250.00**
Parameters to be studied	Plant population, No. of cobs per plant, Yield-Q/ha.
Parameters to be reported	Yield (Q/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS, (Agronomy), SMS (Plant Protection), Senior Scientist and Head

5. Assessment of Brinjal varieties for higher productivity

OFT No.	**05**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Horticulture
Theme	Varietal Evaluation
Category (if applicable)	Vegetable
Crop/ enterprise	Brinjal
Farming situation	Sandy loam, Kharif and Irrigated.
Prioritized problem (short)	Low yield in existing variety, Lack of awareness on new released public sector varieties, Low productivity and high pest and disease incidence.
Title of the OFT	Assessment of Brinjal varieties for higher productivity
Technology options	
TO-1	Arka Neelanchal Shyama
Source and year	CHES, BHU, 2019
Description (short)	It is early variety, suitable for rabi season. Fruits are round and green with light purple shade, weighing up to 190 – 200 g per fruit. It is moderately tolerant to phomopsis blight

Potential yield/income	34 t/ha
Critical Inputs	▪ Arka Neelanchal Shyama : 400 gm ▪ Vegetable special : 10 kg ▪ Field board : 5 No.
Source of Inputs	CHES,Bhubaneswar and KVK, Thiruvannamalai.
Photos	
TO-2	MDU 2
Source and year	TNAU, 2021
Description (short)	Medium sized oblong fruits, light purple with white stripes, cluster bearing, yield - 31.24 t/ha.
Potential yield/income	31.24 t/ha
Critical inputs& quantity and Cost	▪ MDU 2 : 400 gm ▪ Vegetable special : 10 kg
Source of Inputs	TNAU, Coimbatore
Photos	
Farmers Practice	Cultivation of local varieties
Farmers yield	25t/ha
Season	Kharif
Cost per replication (Rs.)	Rs.1900
No. of replications	5
Total cost for the OFT	**Rs. 9500.00**
Parameters to be studied	Days to 50 % flowering, Average fruit wt. (g), Yield Q/ha, BCR
Parameters to be reported	Yield Q/ha, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

6. Assessment of improved Tomato hybrids for higher productivity

OFT No.	**06**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Horticulture
Theme	Varietal Evaluation
Category (if applicable)	Vegetable
Crop/ enterprise	Tomato
Farming situation	Sandy loam, Rabi and Irrigated.
Prioritized problem (short)	High seed cost in private hybrids, lack of awareness on improved hybrids, the yield levels are low due to lack of adoption of location specific hybrids and cultivation of private hybrids with susceptibility to pest and diseases by farmers.
Title of the OFT	Assessment of improved Tomato hybrids for higher productivity
Technology options	
TO-1	COTH 4
Source and year	TNAU, 2020
Description (short)	Fruits are flat round with thick pericarp (5.84 mm). green shoulder at breaker stage which turns to red colour at ripening. Fruits are borne in clusters of 5-6,with an average fruit weight of 80-85g. Moderately resistance to leaf curl virus.
Potential yield/income	92.3 t/ha
Critical Inputs	▪ COTH 4 seeds : 150 gram ▪ Vegetable special : 10 kg ▪ Field board : 5 No.
Source of Inputs	TNAU, Coimbatore and KVK, Thiruvannamalai.
Photos	
TO-2	Arka Aditya
Source and year	IIHR, 2020
Description (short)	Plants are semi determinate with dark green foliage, fruits are oblong – round , firm, medium large (90 – 100 g), resistant to tomato leaf curl disease, bacterial wilt and early blight. It suitable for fresh market & yields 60-65 t/ha in 140 – 150 days.
Potential yield/income	65 t/ha

Critical inputs& quantity and Cost	▪ Arka Aditya - 150 gram ▪ Vegetable special - 10 kg
Source of Inputs	IIHR, Coimbatore and KVK, Thiruvannamalai
Photos	
Farmers Practice	Cultivation of private hybrids
Farmers yield	52t/ha
Season	Rabi
Cost per replication (Rs.)	Rs.3100.00
No. of replications	5
Total cost for the OFT	**Rs.15500.00**
Parameters to be studied	Days to 50 % flowering, Average fruit wt. (g), , Yield Q/ha, BCR
Parameters to be reported	Yield Q/ha, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

7. Assessment of Bhendi hybrids for increased productivity

OFT No.	**07**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Horticulture
Theme	Varietal Assessment
Category (if applicable)	Vegetable
Crop/ enterprise	Bhendi
Farming situation	Sandy loam, Kharif and Irrigated.
Prioritized problem (short)	Lack of awareness on public sector varieties, low yield and susceptible to pest and diseases and low productivity .
Title of the OFT	Assessment of Bhendi hybrids for increased productivity
Technology options	
TO-1	Arka nikita
Source and year	IIHR, 2017
Description (short)	It produces dark green, medium, smooth and tender fruits. Early flowering and it takes 39 days for the first flower appearance and 43 days for picking of fruits. Excellent cooking quality and high edible fibre content. Yield 21 – 24

	t/ha in 120 – 130 days.
Potential yield/income	24 t/ha
Critical Inputs	▪ Arka nikita seeds - 2 kg ▪ Vegetable special - 5 kg ▪ Field board - 5 No.
Source of Inputs	IIHR, Bangalore and KVK, Thiruvannamalai.
Photos	
TO-2	COBH4
Source and year	TNAU, 2017
Description (short)	Plants are medium, Duration is 110 days, yield 25.60 t/ha, Suitable for all the districts of Tamil Nadu except hilly regions; 22 harvests in 110 days starting from 39 days after sowing, Resistant to bhendi Yellow Mosaic Virus disease.
Potential yield/income	25.60 t/ha
Critical inputs& quantity and Cost	▪ COBH 4 seeds - 2 kg ▪ Vegetable special - 5 kg
Source of Inputs	TNAU, Coimbatore
Photos	
Farmers Practice	Local cultivars
Farmers yield	18 t/ha
Season	Kharif
Cost per replication (Rs.)	Rs. 3800.00
No. of replications	5
Total cost for the OFT	**Rs. 19000.00**
Parameters to be studied	Days to 50 % flowering, Average fruit wt. (g), Yield Q/ha, BCR
Parameters to be reported	Yield Q/ha, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

8. Assessment of nutrient formulation for higher productivity in cassava

OFT No.	**08**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Horticulture
Theme	Crop production and Management
Category (if applicable)	Tuber crop
Crop/ enterprise	Cassava
Farming situation	Sandy loam, Rabi and Irrigated.
Prioritized problem (short)	Lack of knowledge on micro nutrient application, Low yield, Poor quality
Title of the OFT	Assessment of nutrient formulation for higher productivity in cassava
Technology options	
TO-1	TNAU Cassava Booster
Source and year	TCRS, Yethapur, 2019
Description (short)	It is the mixture of organic manure *viz*., cow dung, neem cake and bio control agent along with inorganic nutrients to overcome the CMD, nutritional deficiencies, increasing tuber yield and improving starch content in cassava. Three spray at 2nd, 3rd and 4th month after planting.
Potential yield/income	-
Critical Inputs	▪ TNAU Cassava Booster - 50 kg ▪ Field board - 5 No.
Source of Inputs	TCRS, Yethapur and KVK, Thiruvannamalai.
Photos	-
TO-2	Cassava Special
Source and year	CTCRI, 2021
Description (short)	Increases vegetative growth , size and quality of cassava and helps to attain maximum yield. Gives resistance to diseases, stress and drought. Spray on leaves and shoot of the plant. Spray during the 2nd, 3rd and 4th month after planting. 5 ml for 1 lit of water
Potential yield/income	-
Critical inputs& quantity and Cost	▪ Cassava special - 10 lit
Source of Inputs	CTCRI, Thiruvanathapuram
Photos	
Farmers Practice	Application of NPK

Farmers yield	34t/ha
Season	Rabi
Cost per replication (Rs.)	Rs.3240.00
No. of replications	5
Total cost for the OFT	**Rs.16200.00**
Parameters to be studied	Tuber length (Cm), Tuber weight (g), Yield Q/ha, BCR
Parameters to be reported	Yield Q/ha, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

9. Assessment of IDM practices for the management of false smut disease in rice

OFT No.	**09**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Plant Protection
Theme	Integrated Disease Management
Category (if applicable)	Cereals
Crop/ enterprise	Paddy
Farming situation	Clay loam, Kharif
Prioritized problem (short)	High incidence of False Smut, Lack of knowledge on disease management
Title of the OFT	**Assessment of IDM practices for the management of false smut disease in rice**
Technology options	
TO-1	
Source and year	TNAU 2022
Description (short)	Seed treatment with carbendazim 2.0g/kg of seeds. Foliar spraying of Azoxystrobin 7.1% + Propiconazole 11.9 % W/W SE @ 500 ml/ha at tillering and early booting stage.
Potential yield/income	-
Critical Inputs	▪ Azoxystrobin 7.1% + Propiconazole 11.9 % - 1.25 lit
Source of Inputs	Local Agri clinic
Photos	-
TO-2	
Source and year	**UAS Raichur 2020**
Description (short)	Spraying of Fluxapyroxad 62.5% + Epoxyconazole62.5% (300 ml/ ac) followed by Trifloxystrobin25% + Tebuconazole 50% (80 g/ac) Two sprays of Trifloxystrobin 25% + Tebuconazole50% (80 g/ac) at booting stage and post flowering stage

Potential yield/income	-
Critical inputs& quantity and cost	▪ Trifloxystrobin25% + Tebuconazole50% - 500 gram ▪ Field board - 5 Nos
Source of Inputs	Local Agri clinic
Photos	-
Farmers Practice	Spraying of COC 500 gram per acre alone, after the incidence
Farmers yield	48.00 qtl/ha
Season	Kharif
Cost per replication (Rs.)	**Rs. 2200.00**
No. of replications	5
Total cost for the OFT	**Rs. 11000.00**
Parameters to be studied	Percent Disease Index, Benefit Cost Ratio, Yield Q/ha
Parameters to be reported	Yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Plant Protection, SMS- Agronomy, Senior Scientist and Head

10. Assessment of IDM practices for Groundnut root rot disease

OFT No.	**10**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Plant Protection
Theme	Integrated Disease Management
Category (if applicable)	Oilseed
Crop/ enterprise	Groundnut
Farming situation	Red loamy soil, Kharif
Prioritized problem (short)	High incidence of Root, Lack of knowledge on IDM practices, poor yield (16.28/ha).
Title of the OFT	**Assessment of IDM practices for Groundnut root rot disease**
Technology options	
TO-1	
Source and year	TNAU 2022
Description (short)	Summer ploughing, Seed treatment with Carbendazim @2 g/kg of seed. Soil application of Bacillus subtilis and Trichoderma asperellum @ 2.5 kg/hamixed with 50 kg FYM on 30 DAS. Soil drench with carbendazim @ 1 g / l
Potential yield/income	-

Critical Inputs	▪ *Trichoderma asperellum* - 10 Kg, ▪ *Bacillus subtilis* - 10 Kg ▪ Carbendazim - 500 gm
Source of Inputs	KVK Thiruvannamalai, Local agri clinic
Photos	-
TO-2	
Source and year	**DGR, 2018**
Description (short)	Summer ploughing Seed Treatment with Tebuconazole 2DS @ 1.5 g/kg of seed. Soil application of *Trichoderma asperellum* @ 4 kg/ha with enriched 250 Kg, FYM first at the time of sowing, 35 and 70 DAS.
Potential yield/income	-
Critical inputs& quantity and cost	▪ *Trichoderma asperellum* - 10 Kg, ▪ *Bacillus subtilis* - 10 Kg ▪ Tebuconazole 2DS - *500 gm* ▪ Field board - 5 Nos
Source of Inputs	KVK Thiruvannamalai, Local agri clinic
Photos	-
Farmers Practice	Spraying of Carbendazim 50% WP
Farmers yield	16.28 Qtl/ha
Season	Kharif
Cost per replication (Rs.)	**Rs. 2100.00**
No. of replications	5
Total cost for the OFT	**Rs. 10500.00**
Parameters to be studied	% Disease incidence, Benefit Cost Ratio, Yield Q/ha
Parameters to be reported	Yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Plant Protection, SMS- Agronomy, Senior Scientist and Head

11. Assessment of biological methods for management of root knot nematode in Tomato

OFT No.	**11**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Plant protection
Theme	Integrated Nematode Management
Category (if applicable)	Vegetable crop
Crop/ enterprise	Tomato
Farming situation	Sandy clay loam, Kharif

Prioritized problem (short)	High incidence of Nematode, Lack of knowledge, Low yield
Title of the OFT	**Assessment of biological methods for management of root knot nematode in Tomato**
Technology options	
TO-1	
Source and year	IIVR, 2017
Description (short)	Nursery beds treated with antagonists (*Trichoderma harzianum, Purpureocillium lilacinum*) @ 50g/m2, Soil application of *Purpureocillium lilacinum* @ 10 kg/ha, Drenching of fungal (*T. harzianum, T. asperellum, P. lilacinum)* and bacterial antagonists (*Bacillus subtilis*) @ 0.5% at regular interval of 30 days after transplanting.
Potential yield/income	
Critical Inputs	▪ *Trichoderma asperellum* - 10 Kg ▪ *Purpureocillium lilacinum* - 10 Kg ▪ *Bacillus subtilis* - 20 Kg
Source of Inputs	TNAU, KVK Thiruvannamalai
Photos	-
TO-2	
Source and year	TNAU CPG, 2020
Description (short)	Soil solarization before preparation of nursery bed Seed Treatment - *Trichoderma asperellum* @ 4g/kg, Pressmud @ 5kg/m2 or *Purpureocillium lilacinum* @ 10g/kg of seed Soil application of *P. lilacinum* @ 50g/m2.
Potential yield/income	-
Critical inputs& quantity and cost	▪ *Trichoderma asperellum* - 10 Kg ▪ *Purpureocillium lilacinum* - 10 Kg ▪ Field board - 5 Nos
Source of Inputs	TNAU, KVK Thiruvannamalai
Photos	-
Farmers Practice	Application of carbofuron 10 kg/ha
Farmers yield	432 qtl/ha
Season	Rabi
Cost per replication (Rs.)	**Rs. 2500.00**
No. of replications	5
Total cost for the OFT	**Rs. 12500.00**
Parameters to be studied	% Nematode incidence, Benefit Cost Ratio, Yield Q/ha
Parameters to be reported	Yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Plant Protection, SMS- Horticulture, Senior Scientist and Head

12. Assessment of bioinoculants against tuberose root knot nematode

OFT No.	**12**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Plant protection
Theme	Integrated Nematode Management
Category (if applicable)	Flower crop
Crop/ enterprise	Tuberose
Farming situation	Sandy clay loam, Kharif
Prioritized problem (short)	High incidence of Nematode, Lack of knowledge on Nematode management, Low yield
Title of the OFT	**Assessment of bioinoculants against tuberose root knot nematode**
Technology options	
TO-1	
Source and year	**TNAU, 2020**
Description (short)	Apply *Pocchonia chlamydosporia* as bulb treatment @ 1kg/ha, Soil application *Pocchonia chlamydosporia* @ 2.5kg/ha mixed with 100kg FYM or apply Carbofuran 3 G @ 1 g/plant near the root zone and irrigate immediately.
Potential yield/income	
Critical Inputs	▪ *Pocchonia chlamydosporia* - 10 Kg
Source of Inputs	TNAU
Photos	-
TO-2	
Source and year	**IIHR, 2016**
Description (short)	Soil application of bio pesticides enriched FYM @ 5 tons/ha before planting (For enrichment process, mix 2 kg each of *Trichoderma viride*, *Bacillus subtilis* and *Purpureocillium lilacinumin* 1 ton of FYM)
Potential yield/income	-
Critical inputs& quantity and cost	▪ *Trichoderma* - 10 Kg ▪ *Bacillus subtilis* - 10 Kg ▪ *Purpureocillium lilacinumin* - 10 Kg ▪ Field board - 5 Nos
Source of Inputs	TNAU, KVK Thiruvannamalai
Photos	-
Farmers Practice	Application of chemical pesticides
Farmers yield	-
Season	Kharif
Cost per replication (Rs.)	**Rs. 1800.00**
No. of replications	5
Total cost for the OFT	**Rs. 9000.00**

Parameters to be studied	% Nematode incidence, Benefit Cost Ratio, Yield Q/ha
Parameters to be reported	Yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Plant Protection, SMS- Horticulture, Senior Scientist and Head

13. Assessment of anionic powder for milk fever in High yielding milch cow

OFT No.	**13**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Animal Science
Theme	Livestock Production Management
Category (if applicable)	Production Management
Crop/ enterprise	Cow
Farming situation	-
Prioritized problem (short)	Milk fever is one of the transition period metabolic disease most common in mature dairy cows which occurs due to the deficiency of calcium
Title of the OFT	**Assessment of anionic powder for milk fever in High yielding milch cow**
Technology options	
TO-1	
Source and year	**TANUVAS 2021**
Description (short)	**TANUVAS PAM 21 :** Feeding of TANUVAS PAM 21 to transition cows from 16 days prior to calving to 5 days post calving through dietary cationic anionic balance in the ration reduces the incidence of milk fever
Potential yield/income	
Critical Inputs	▪ TANUVAS PAM 21 : 50 box
Source of Inputs	TANUVAS, Chennai
Photos	
TO-2	
Source and year	**NDRI, Karnal 2020**
Description (short)	**Anionic Mishran AFS** 100gm once or 50gm twice a day for 3-4 weeks before calving in pregnant dry animals.
Potential yield/income	-

Critical inputs& quantity and cost	▪ Anionic Mishran AFS : 25 Kg ▪ Field board : 5 Nos
Source of Inputs	NDRI, Karnal
Photos	
Farmers Practice	No Feeding of Anionic powder
Farmers yield	-
Season	Kharif
Cost per replication (Rs.)	**Rs. 3300.00**
No. of replications	5
Total cost for the OFT	**Rs. 16500.00**
Parameters to be studied	Incidence of milk fever (%), Milk yield (lits), BCR
Parameters to be reported	Milk yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS Animal Science and Senior Scientist and Head

14. Assessment of Milk fat modulator in milch cow

OFT No.	**14**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Animal Science
Theme	Livestock Production Management
Category (if applicable)	Production Management
Crop/ enterprise	Cow
Farming situation	-
Prioritized problem (short)	Low milk fat content in the milk is a major issue in dairy farming. Low market price for milk containing low milk fat.
Title of the OFT	**Assessment of Milk fat modulator in milch cow**
Technology options	
TO-1	
Source and year	**NIANP, 2022**
Description (short)	**OmeB supplement :** The supplement was formulated using phyto based agricultural waste. The concentrate mixture containing OmeB can be fed in the form of slurry before morning and evening milking.
Potential yield/income	

Critical Inputs	▪ OmeB Supplement : 100 Kg
Source of Inputs	NIANP, Bengaluru
Photos	
TO-2	
Source and year	**NDDB, 2022.**
Description (short)	**Samvridhi :** Feed supplement named "Samvriddhi" is improving fat and SNF in milk of dairy animals.
Potential yield/income	-
Critical inputs& quantity and cost	▪ Samvridhi : 100 Kg ▪ Field board : 5 Nos
Source of Inputs	NDDB, Bengaluru
Photos	
Farmers Practice	Feeding of only Concentrated feed
Farmers yield	-
Season	Rabi
Cost per replication (Rs.)	**Rs. 3600.00**
No. of replications	5
Total cost for the OFT	**Rs. 18000.00**
Parameters to be studied	Milk fat(%), Milk production (lits), BCR
Parameters to be reported	Milk yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS Animal Science and Senior Scientist and Head

9. Frontline Demonstrations proposed during 2024-25

9.1. Summary of FLDs

S. No.	Category/ Crop or enterprise	Title	Prioritized problem	Technology	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	Paddy	Demonstration of Paddy variety RNR 15048	Cultivation of old varieties which are susceptible to leaf blast and lodging which leads to yield reduction.	Varietal demonstration	ICAR IIRR 2015	OFT to FLD	10	4	14750.00	SMS-Agronomy SMS-Plant Protection, SS & Head	-	10
2	Redgram	Demonstration of Redgram variety CO 8	▪ Cultivation of old varieties. ▪ Lack of awareness on high yielding variety. ▪ High incidence of disease. ▪ Low yield.	Varietal demonstration	TNAU 2012	OFT to FLD	10	4	7750.00	SMS-Agronomy SMS-Plant Protection, SS & Head	-	10

3	Groundnut	Demonstration of TNAU vigour plus seed booster	Lack of awareness about the usage of seed boosters which leads to yield reduction	Integrated Crop Management	TNAU, 2012	New	10	4	8000.00	SMS-Agronomy SMS-Plant Protection, SS & Head	-	-
4	Sugarcane	Demonstration of Sugarcane Booster	Lack of knowledge about micronutrients leads to reduced internodes and cane growth	Integrated Crop Management	TNAU, 2010	New	10	4	21000.00	SMS-Agronomy SMS-Plant Protection, SS & Head	10	-
5	Ridge gourd	Demonstration of Ridge gourd variety MDU 1	Low yield due to cultivation of local variety	Varietal Assessment	TNAU, 2023	OFT converted to FLD	10	2	16200.00	SMS-Horticulture SMS-Plant Protection, SS & Head	10	-
6	Bottle gourd	Demonstration of Bottle gourd variety PLR 2	Low yield due to cultivation of local variety	Varietal Assessment	TNAU, 2019	New	10	2	14500.00	SMS-Horticulture SMS-Plant Protection, SS & Head	-	-
7	Bhendi	Demonstration of CSR grow sure inoculants in bhendi	Micro nutrient formulations not followed	Crop production and management	CSSRI, 2021	OFT converted to FLD	10	4	9500.00	SMS-Horticulture SMS-Plant Protection, SS & Head	-	

8	Chilli	Demonstration on Integrated Crop Management in Chilli	Low yield due to lack of adoption of improved production technologies	ICM	TNAU 2020	New	10	2	14200.00	SMS-Horticulture, SMS-Plant Protection, SS & Head	-	10
9	Paddy	Demonstration on IPDM in Paddy	Intensive application of pesticides (4-5 sprays). High infestation of BPH, Stem borer, leaf folder, Blast, Tungro, False smut and BLB. Lack of awareness on IPDM.	IPDM	TNAU 2020	3rd Year	10	4	21000.00	SMS-Plant Protection, SMS-Agronomy, SS & Head	-	10
10	Blackgram	Demonstration of mung bean yellow mosaic virus resistant black gram Variety LBG 884	High incidence of Mungbean yellow mosaic virus disease, lack of knowledge on disease management.	IDM	ANGRAU, 2022	New	10	4	19800.00	SMS-Plant Protection, SMS-Agronomy, SS & Head	-	-
11	Groundnut	Demonstration of Wild Boar Bio-Repellent in Groundnut	High infestation of Wild boar, Poor yield, Lack of awareness wild boar management	IPM	Mivipro products, Erode 2019	New	10	4	19500.00	SMS-Plant Protection, SMS-Agronomy, SS & Head	-	-

12	Chilli	Demonstration of IPDM in Chilli	Injudicious use of pesticides for the management of sucking pest. High infestation of viral disease and sucking pests. Non adoption of IPM practices.	IPDM	TNAU 2022	Second year	10	2	21000.00	SMS- Plant Protection, SMS- Horticulture SS & Head	-	-
13	Goat	Demonstration of Nano Heal Cream in Goat	High occurrence of wound due to diseases. Lack of knowledge scientific goat rearing.	Disease management	TRPVB, TANUVAS, 2021	OFT converted to FLD	10	0	15000.00	SMS – Animal Science, SS & Head	-	10
14	Cow	Demonstration of Megatex spray for management of Ectoparasite in Cow	Lack of knowledge scientific ticks management. Poor milk yiled.	Disease management	CIRG, 2018	OFT converted to FLD	10	0	16000.00	SMS – Animal Science, SS & Head	-	10
15	Cow	Demonstration of TANUVAS GRAND to improve milk production in Cow	Poor milk yield, Lack of knowledge on feed management of milch cow.	Livestock Production Management	IAN, 2022	New	10	0	15500.00	SMS – Animal Science, SS & Head	-	10

16	Poultry	Demonstration of Star Chicken under backyard condition	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency, Low body weight gain.	Poultry Production Management	TANUVAS, 2021	New	10	0	30500.00	SMS – Animal Science, SS & Head	-	10
17	Value addition	Demonstration of sugar cane Jam	Lack of awareness on value added products from sugarcane	Processing and value addition	ICAR SBI-2021	New	5	0	19210.00	SMS – Home Science, SMS Agronomy, SS & Head	-	5
18	Value addition	Demonstration on millet based value added products – EDP mode	Lack of awareness on millet value addition, Low market price.	Processing and value addition	TNAU - 2022, CFTRI-2022, TANUVAS - 2020	New	5	0	19700.00	SMS – Home Science, SMS Agronomy, SS & Head	-	5
19	Herbal garden	Demonstration on herbal garden	Lack of awareness on herbal usage and their cultivation practices	Herbal garden	TNAU, 2015	New	5	0	6000.00	SMS – Home Science, SMS Plant Protection, SS & Head	5	-
Total							**175**	**40**	**309110.00**	-	**25**	**90**

9.2. Details of Front Line Demonstrations

1. Demonstration of Paddy variety RNR 15048

FLD No.:	**01**
Status (New proposal/2nd year /3rd year)	OFT to FLD
Subject	Agronomy
Category:	Cereals
Crop/ enterprise:	Paddy
Farming situation	Irrigated, Sandy loamy
Prioritized problem:	Cultivation of old varieties which are susceptible to lodging, pest and diseases leads to yield reduction
Title	**Demonstration of Paddy variety RNR 15048**
Technology to be demonstrated:	Paddy variety RNR 15048
Hybrid or Variety:	Variety
Source of Technology:	ICAR IIRR 2015
Description	Duration (125 days) , short slender grain type, resistant to leaf blast. Potential yield is 6500kg/ha
Potential yield	60-55q/ha
Critical input, quantity and cost	RNR 15048 Seed - 150 Kg, *Trichoderma asperellum*-10 Kg, *Bacillus subtilis* -10 Kg, Field Board - 10 Nos
Farmers practice	Cultivation of ADT 36
Source of input	ICAR and KVK, Kilnelli
Photos	
Average farmers yield	45 q/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs.14750.00**
Parameters to be studied:	Plant population, No of tillers, Yield
Parameters to be reported	Yield : qtl/ha, Benefit cost ratio
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-Agronomy, SMS-Plant Protection and Senior Scientist and Head

2. Demonstration of Redgram variety CO 8

FLD No.:	**02**
Status (New proposal/2nd year /3rd year)	OFT to FLD
Subject	Agronomy
Category:	Pulses
Crop/ enterprise:	Redgram
Farming situation	Irrigated, Sandy loamy
Prioritized problem:	Cultivation of local varieties and poor yield
Title	**Demonstration of Redgram variety CO 8**
Technology to be demonstrated:	Redgram variety CO 8
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2012
Description	It matures about 150-165 days. The average yield is about 17 q/ha. It is moderately resistant to Fusarium wilt and *Helicoverpa armigera.*
Potential yield	10-12 q/ha
Critical input, quantity and cost	CO 8 Seed - 10 Kg, *Trichoderma asperellum*-10 Kg, Field Board - 10 Nos
Farmers practice	Cultivation of local variety
Source of input	TNAU
Photos	
Average farmers yield	10 q/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs.7750.00**
Parameters to be studied:	Plant population, No of Pods/plant Yield
Parameters to be reported	Yield : qtl/ha, Benefit cost ratio
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-Agronomy, SMS-Plant Protection and Senior Scientist and Head

3. Demonstration of TNAU vigour plus seed booster

FLD No.:	**03**
Status (New proposal/2nd year /3rd year)	New
Subject	Agronomy
Category:	Crop production and Management
Crop/ enterprise:	Groundnut
Farming situation	Irrigated, Sandy loamy
Prioritized problem:	Poor germination leads to less crop productivity
Title	**Demonstration of TNAU vigour plus seed booster**
Technology to be demonstrated:	**TNAU vigour plus seed booster**
Source of Technology:	TNAU 2012
Description	Improves germination, Ensures crop stand, Enhances growth and crop productivity and Improves seedling vigour and effective root growth
Potential yield	20q/ha
Critical input, quantity and cost	TNAU vigour plus seed booster- 5 litres**,** Field Board - 10 Nos
Farmers practice	No usage of TNAU vigour plus seed booster
Source of input	TNAU
Photos	
Average farmers yield	15q/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs.8000.00**
Parameters to be studied:	Plant population, No of Pods/plant Yield
Parameters to be reported	Yield : qtl/ha, Benefit cost ratio
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-Agronomy, SMS-Plant Protection and Senior Scientist and Head

4. Demonstration of Sugarcane Booster

FLD No.:	**04**
Status (New proposal/2nd year /3rd year)	New
Subject	Agronomy
Category:	Crop production and Management
Crop/ enterprise:	Sugarcane
Farming situation	Irrigated, Sandy loamy
Prioritized problem:	Reduced intermodes and cane growth leads to poor yield
Title	**Demonstration of Sugarcane Booster**
Technology to be demonstrated:	**Sugarcane Booster**
Source of Technology:	TNAU 2010
Description	Improves internodal length and cane growth. Increases cane yield up to 20 % It also Improves sugar content and increase drought tolerance
Potential yield	130 t/ha
Critical input, quantity and cost	Sugarcane booster – 45 kg, Field Board - 10 Nos
Farmers practice	No usage of sugarcane booster
Source of input	TNAU
Photos	
Average farmers yield	90 t/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs.21000.00**
Parameters to be studied:	Cane length, Yield
Parameters to be reported	Yield : qtl/ha, Benefit cost ratio
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-Agronomy, SMS-Plant Protection and Senior Scientist and Head

5. Demonstration of Ridge gourd variety MDU 1

FLD No.	**05**
Status (New proposal/2nd year /3rd year)	OFT converted to FLD
Subject	Horticulture
Category:	Vegetable
Crop/ enterprise:	Ridge gourd
Farming situation	Irrigated, Sandy loam soil
Prioritized problem:	▪ Low yield due to cultivation of local variety
Title	**Demonstration of Ridge gourd variety MDU 1**
Technology to be demonstrated:	Varietal Assessment
Hybrid or Variety:	Variety – MDU 1 Ridge gourd
Source of Technology:	TNAU, 2023
Description	▪ Early flowering, produce medium size fruit. ▪ Soft flesh, suitable for export purpose. ▪ Tolerant to fruit fly attack.
Potential yield	18.5 t/ha
Critical input, quantity and cost	▪ Ridge gourd seed - 4 kg ▪ Vegetable special - 20 kg ▪ Bacillus - 10 kg ▪ Field board - 10 No
Farmers practice	Cultivation of local variety with conventional production practices
Source of input	TNAU, Madurai and KVK, Thiruvannamalai.
Photos	
Average farmers yield	14 t/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 16200.00**
Parameters to be studied:	Days to 50% flowering, Average fruit weight (kg), Average fruit length (cm), Yield Q/ha, BCR.
Parameters to be reported	Yield (Q/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

6. Demonstration of Bottle gourd variety PLR 2

FLD No.	**06**
Status (New proposal/2nd year /3rd year)	New
Subject	Horticulture
Category:	Vegetable crop
Crop/ enterprise:	Bottle gourd
Farming situation	Irrigated, Sandy loam soil
Prioritized problem:	▪ Low production due to cultivation of local variety
Title	**Demonstration of Bottle gourd variety PLR 2**
Technology to be demonstrated:	Varietal assessment
Hybrid or Variety:	PLR 2 bottle gourd variety
Source of Technology:	TNAU 2019
Description	▪ Round shaped fruit like traditional bottle gourd types. ▪ Short necked and mottle less light green fruits. ▪ Average single fruit weight is 950 g & 12 – 15 fruits per vine ▪ Moderate resistant to powdery and downy mildews
Potential yield	42 t/ha
Critical input, quantity and cost	▪ Bottle gourd seed - 5 kg ▪ Vegetable special - 20 kg ▪ Field board - 10Nos.
Farmers practice	Cultivation of local variety
Source of input	TNAU, Palur and KVK, Thiruvannamalai.
Photos	
Average farmers yield	33 t/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 14,500.00**
Parameters to be studied:	Days to 50 % flowering, Average fruit wt. (g), Average fruit length(cm), Yield Q/ha, BCR.
Parameters to be reported	Yield (Q/ha),BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

7. Demonstration of CSR grow sure inoculants in bhendi

FLD No.	**07**
Status (New proposal/2nd year /3rd year)	OFT converted to FLD
Subject	Horticulture
Category:	Vegetable
Crop/ enterprise:	Brinjal
Farming situation	Irrigated, Sandy loam soil
Prioritized problem:	Micro nutrient formulations not followed
Title	**Demonstration of CSR grow sure inoculants in bhendi**
Technology to be demonstrated:	Crop Production and Management
Hybrid or Variety:	CSR grow sure
Source of Technology:	CSSRI, 2021
Description	▪ It's a microbial inoculants contains highly efficient salt tolerant bacteria strains. ▪ Enhances the yield in horticultural crops especially vegetables. ▪ Soil drenching of 1% solution at 10,30,50 days after sowing.
Potential yield	-
Critical input, quantity and cost	▪ CSR grow sure - 30 lit ▪ Field board - 10 No
Farmers practice	Applied NPK fertilizers
Source of input	CSSRI, Lucknow
Photos	
Average farmers yield	22 t/ha
Season	Rabi
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 9500.00**
Parameters to be studied:	Days to 50% flowering, Average fruit weight (g), Yield Q/ha, BCR.
Parameters to be reported	Yield (Q/ha),BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

8. Demonstration on Integrated Crop Management in Chilli

FLD No.	**08**
Status (New proposal/2nd year /3rd year)	New
Subject	Horticulture
Category:	Vegetable
Crop/ enterprise:	Chilli
Farming situation	Irrigated, Sandy loam soil
Prioritized problem:	▪ Micro nutrient formulations not followed ▪ Growth promoters not used
Title	**Demonstration on Integrated Crop Management in Chilli**
Technology to be demonstrated:	Crop Production and Management
Hybrid or Variety:	-
Source of Technology:	TNAU 2020
Description	▪ FYM 25 t/ha, NPK application based on soil test. ▪ Treat the seeds with trichoderma @ 4g/kg ▪ Foliar spray application of micro nutrient mixture @0.5% ▪ Spray tricontanol @1.25 ml/lit
Potential yield	25 t/ha
Critical input, quantity and cost	▪ Vegetable special - 60 kg, ▪ *Trichoderma* - 10kg, ▪ Triacontanol - 2.5 lit ▪ Yellow sticky trap - 50 nos ▪ Field Board - 10 nos.
Farmers practice	Adoption of conventional production practices with soil application of NPK fertilizers (conventional) without proper micro nutrition.
Source of input	KVK, Thiruvannamalai.
Photos	
Average farmers yield	18 t/ha
Season	Rabi
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 14200.00**
Parameters to be studied:	Days to 50% flowering, Average fruit weight (gm),Yield Q/ha, BCR.
Parameters to be reported	Yield (Q/ha),BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS- Horticulture, SMS- Plant Protection, Senior Scientist and Head.

9. Demonstration on IPDM in Paddy

FLD No.	**09**
Status (New proposal/2nd year /3rd year)	3rd year
Subject	Plant Protection
Category:	Cereals
Crop/ enterprise:	Paddy
Farming situation	Irrigated and Clay loam.
Prioritized problem:	Intensive application of pesticides (4-5 sprays). High infestation of BPH, Stem borer, leaf folder, Blast, Tungro, False smut and BLB. Lack of awareness on IPDM.
Title	**Demonstration on IPDM in Paddy**
Technology to be demonstrated:	IPDM
Hybrid or Variety:	Variety – Co51
Source of Technology:	TNAU 2020
Description	▪ *Bacillus subtilis*- Seed treatment @ *10 g/kg,* Soil application @ 1kg/acre, Seedling root dip @ 1kg/acre ▪ Release of *Trichogramma japonicum* @ 2 cc & *Trichogramma chilonis* @ 2 cc. ▪ Installation of solar light trap @ 1/acre, Yellow sticky trap @ 5nos/acre and Stem borer pheromone trap @ 10 nos/acre. ▪ Need based application of Neem oil @ 3% and Camphor oil 400 ml/acre ▪ Application of Cartop Hydrochloride 50% SP@ 400 g/ac, Azoxystrobin 25 SC @ 200 ml ac.
Potential yield	-
Critical input, quantity and cost	*Bacillus subtilis* - *30 Kg* Pheromone trap - 100 Nos Stem borer lure - 200 Nos Yellow sticky trap - 50 No Neem oil - 5 lit Field board - 10 no
Farmers practice	Application of plant protection chemicals.
Source of input	KVK, PCI Chennai, Local Agri clinic.
Photos	-
Average farmers yield	44.51 Q/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs.21000.00**
Parameters to be studied:	Percent infestation, % disease index, Yield Q/ha, BCR
Parameters to be reported	Percent infestation, % disease index, Yield Q/ha, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others)	KVK Main
Team members	SMS - Plant Protection, SMS – Agronomy, SS and Head.

10. Demonstration of mung bean yellow mosaic virus resistant black gram Variety LBG 884

FLD No.	**10**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Plant Protection
Category:	Pulses
Crop/ enterprise:	Blackgram
Farming situation	Irrigated and sandy loam soil
Prioritized problem:	High incidence of Mungbean yellow mosaic virus disease, lack of knowledge on disease management.
Title	**Demonstration of mung bean yellow mosaic virus resistant black gram Variety LBG 884**
Technology to be demonstrated:	IDM
Hybrid or Variety:	Variety – LBG 884
Source of Technology:	ANGRAU, 2022
Description	LBG 884 ▪ Resistant to Mung bean Yellow Mosaic Virus ▪ Photo insensitive variety, Medium bold and shiny variety ▪ Yield: Irrigated –2000 - 2200 kg/ha ▪ Duration: 80-85 days
Potential yield	20-22 Qtl/ha
Critical input, quantity and cost	LBG 884 Seed - 80 Kg *Trichoderma asperellum* - 20 Kg *Bacillus subtilis* - 20 Kg Field board - 10 no
Farmers practice	Application of plant protection chemicals.
Source of input	KVK, RARS - LAM
Photos	
Average farmers yield	7.2 Q/ha
Season	Rabi
No. of Demos (replications)	10
Total cost for the Demo	**Rs.19800.00**
Parameters to be studied:	Percent incidence, Yield Q/ha, BCR
Parameters to be reported	Percent incidence, Yield Q/ha, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS - Plant Protection, SMS – Agronomy, SS and Head.

11. Demonstration of Wild Boar Bio-Repellent in Groundnut

FLD No.:	**11**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Plant Protection
Category:	Oilseeds
Crop/ enterprise:	Groundnut
Farming situation	Rainfed, red sandy loam soil
Prioritized problem:	High infestation of Wild boar, Poor yield, Lack of awareness wild boar management
Title	**Demonstration of Wild Boar Bio-Repellent in Groundnut**
Technology to be demonstrated:	IPM
Hybrid or Variety:	Variety – Dharani (TCGS 1043)
Source of Technology:	Mivipro products, Erode 2019
Description	▪ Spraying of Innovative Herboliv+ (10% dilution) with 10 days interval – 3 Application
Potential yield	-
Critical input, quantity and cost	Herbolive - 150 lit Field board - 10 No
Farmers practice	Manual monitoring
Source of input	Aaramuthu FPO
Photos	-
Average farmers yield	16.25 qtl/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	**Rs.19500.00**
Parameters to be studied:	Percent infestation, Yield Q/ha, Benefit Cost Ratio
Parameters to be reported	Yield, Gross cost, Gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS - Plant Protection, Senior Scientist and Head.

12. Demonstration of IPDM in Chilli

FLD No.:	**12**
Status (New proposal/2nd year /3rd year)	2nd year
Subject	Plant Protection
Category:	Vegetable
Crop/ enterprise:	Chilli

Farming situation	Irrigated and black soil
Prioritized problem:	Injudicious use of pesticides for the management of sucking pest. High infestation of viral disease and sucking pests. Non adoption of IPM practices.
Title	**Demonstration of IPDM in Chilli**
Technology to be demonstrated:	IPDM
Hybrid or Variety:	Hybrid - Priyanka
Source of Technology:	TNAU 2022
Description	▪ Seed treatment with *Bacillus subtilis* (Bbv57) @ 10g/kg of seed. ▪ Three rows of closely sown maize as barrier crop and agathi as intercrop. ▪ Soil application of *Bacillus subtilis* and *Trichoderma asperellum* 2.5 kg/ha (Each) ▪ Installation of Yellow sticky traps @ 12 Nos./ha. ▪ Roguing out of virus infected plants upto 45 days after transplanting. ▪ Application of imidacloprid 17.8% SL @ 150 ml/ha followed by pyriproxyfen 10%EC @ 500 ml/ha at 10 days interval. ▪ Application of Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @ 1 ml/lit thrice at 15 days interval immediately after noticing the powdery mildew / die-back
Potential yield	-
Critical input, quantity and cost	*Bacillus subtilis* - 20 Kg *Trichoderma asperillum* - 20 Kg Pyriproxyfen - 1 lit Azoxystrobin 18.2% + Difenoconazole 11.4% – 1 lit Yellow sticky trap - 50 No Field board - 10 No
Farmers practice	Indiscriminate use of chemicals.
Source of input	KVK, PCI, local Agri clinic
Photos	-
Average farmers yield	18.02 qtl/ha
Season	Rabi
No. of Demos (replications)	10
Total cost for the Demo	**Rs.21000.00**
Parameters to be studied:	Percent infestation, % disease index, Yield Q/ha, Benefit Cost Ratio
Parameters to be reported	Yield, Gross cost, Gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS - Plant Protection, SMS – Horticulture, SS and Head.

13. Demonstration of Nano Heal Cream in Goat

FLD No.	**13**
Status (New proposal/2nd year /3rd year)	OFT converted to FLD
Subject	Animal Science
Category:	Disease Management
Crop/ enterprise:	Goat
Farming situation	-
Prioritized problem:	High occurrence of wound due to diseases. Lack of knowledge on scientific goat rearing.
Title	**Demonstration of Nano Heal Cream in Goat**
Technology to be demonstrated:	Demonstration of Nano Heal Cream for disease management in goat.
Hybrid or Variety:	-
Source of Technology:	TRPVB, TANUVAS, 2021
Description	▪ Nano Heal cream is a formulation of chlorhexidine and calcium phosphate. ▪ Nano Heal cream is indicated for burn wounds, cuts and scratches.
Potential yield	-
Critical input, quantity and cost	▪ Nano Heal Cream: 100 Nos ▪ Field Board : 10 Nos
Farmers practice	Applying neem leaves paste with turmeric powder
Source of input	TANUVAS, Chennai.
Photos	
Average farmers yield	-
Season	Kharif 24
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 15000.00**
Parameters to be studied:	Healing of wound (Days), Milk yield (%), BCR
Parameters to be reported	Healing of wound (Days), Milk yield (%), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Animal Science, Senior Scientist and Head.

14. Demonstration of Megatex spray for management of Ectoparasite in Cow

FLD No.	**14**
Status (New proposal/2nd year /3rd year)	OFT converted to FLD
Subject	Animal Science
Category:	Disease Management
Crop/ enterprise:	Cow
Farming situation	-
Prioritized problem:	Lack of knowledge scientific ticks management. Poor milk yield.
Title	**Demonstration of Megatex spray for management of Ectoparasite in Cow**
Technology to be demonstrated:	Megatex spray for management of Ectoparasite in Cow
Hybrid or Variety:	-
Source of Technology:	CIRG, 2018
Description	▪ It is non-toxic and promotes slow release of active ingredients. ▪ It has antiseptic properties and helps to prevent skin infections. ▪ It is eco-friendly and safe for the animals.
Potential yield	-
Critical input, quantity and cost	▪ Megatex spray: 100 Nos ▪ Field Board : 10 Nos
Farmers practice	Applying salt and manual control
Source of input	CIRG
Photos	
Average farmers yield	-
Season	Rabi 24-25
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 16000.00**
Parameters to be studied:	Infestation (%), Milk yield(lits), BCR
Parameters to be reported	Infestation (%), Milk yield(lits), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Animal Science, Senior Scientist and Head.

15. Demonstration of TANUVAS GRAND to improve milk production in Cow

FLD No.	**15**
Status (New proposal/2nd year /3rd year)	New
Subject	Animal Science
Category:	Livestock Production Management
Crop/ enterprise:	Cow
Farming situation	-
Prioritized problem:	Poor milk yield, Lack of knowledge on feed management of milch cow.
Title	**Demonstration of TANUVAS GRAND to improve milk production in Cow**
Technology to be demonstrated:	TANUVAS GRAND to improve milk production in Cow
Hybrid or Variety:	-
Source of Technology:	IAN, 2022
Description	▪ TANUVAS GRAND feed supplement is patented product which improves milk production and reduces sub acute ruminal acidosis in milch cow
Potential yield	-
Critical input, quantity and cost	▪ TANUVAS GRAND : 100 bottle ▪ Field Board : 10 Nos
Farmers practice	Feeding of rice gruel
Source of input	TANUVAS
Photos	
Average farmers yield	-
Season	Rabi 24-25
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 15500.00**
Parameters to be studied:	▪ Incidence of ruminal acidosis (%), Milk yield (lits), BCR
Parameters to be reported	▪ Incidence of ruminal acidosis (%), Milk yield (lits), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Animal Science, Senior Scientist and Head.

16. Demonstration of Star Chicken under backyard condition

FLD No.	**16**
Status (New proposal/2nd year /3rd year)	New
Subject	Animal Science
Category:	Poultry Production Management
Crop/ enterprise:	Poultry
Farming situation	-
Prioritized problem:	Less number of egg production, Low hatchability, Chick mortality, Less feed efficiency, Low body weight gain.
Title	**Demonstration of Star Chicken under backyard condition**
Technology to be demonstrated:	Star Chicken under backyard condition
Hybrid or Variety:	-
Source of Technology:	TANUVAS, 2021
Description	▪ Brown shelled egg producer, Flightiness to evade predation, Optimum egg number of 220 eggs per annum, Good survivability of 92.43% under the backyard system, Multi coloured feather pattern.
Potential yield	-
Critical input, quantity and cost	▪ Star Chicken (Month old) : 250 Nos ▪ Field Board : 10 Nos
Farmers practice	Aseel chicks in open place.
Source of input	TANUVAS
Photos	
Average farmers yield	-
Season	Khairf 2024
No. of Demos (replications)	10
Total cost for the Demo	**Rs. 30500.00**
Parameters to be studied:	▪ Poultry Weight(Kg), Egg Production (Nos), Mortality(%), BCR
Parameters to be reported	▪ Poultry Weight(Kg), Egg Production (Nos), Mortality(%), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Animal Science, Senior Scientist and Head.

17. Demonstration of sugar cane Jam

FLD No.	**17**
Status (New proposal/2nd year /3rd year)	Direct FLD (New)
Subject	Home Science
Category:	Value addition
Crop/ enterprise:	Sugarcane
Farming situation	-
Prioritized problem:	Lack of awareness on value added products from sugarcane
Title	**Demonstration of sugar cane Jam**
Technology to be demonstrated:	Sugar cane Jam
Hybrid or Variety:	-
Source of Technology:	ICAR SBI-2021
Description	▪ Sugarcane jam contains 10 times rich in Potassium content. It is also rich in Vitamin B complex (5.7mg) and Vitamin E (5.73mg).
Potential yield	-
Critical input, quantity and cost	▪ Brix refractometer : 5 Nos, ▪ Citric acid : 5 kg ▪ Packing materials : 500 bottles, ▪ Field board : 5 Nos.
Farmers practice	Consumption of sugarcane juice and Jaggary
Source of input	Local market and Sugarcane growers
Photos	
Average farmers yield	-
Season	Rabi 2024-25
No. of Demos (replications)	5
Total cost for the Demo	**Rs. 19210.00**
Parameters to be studied:	Shelf life, consumer acceptability, BCR
Parameters to be reported	Shelf life, consumer acceptability, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Home Science, SMS – Agronomy and Senior Scientist and Head

18. Demonstration on millet based value added products – EDP mode

FLD No.	**18**
Status (New proposal/2nd year /3rd year)	Direct FLD (New)
Subject	Home Science
Category:	Value addition
Crop/ enterprise:	Millets
Farming situation	-
Prioritized problem:	Lack of awareness on millet value addition, Low market price.
Title	**Demonstration on millet based value added products – EDP mode**
Technology to be demonstrated:	Millet based value added products.
Hybrid or Variety:	-
Source of Technology:	TNAU - 2022, CFTRI-2022, TANUVAS - 2020
Description	▪ Millet based value added products are the good source of protein, fiber, Key vitamins and minerals. It also protects cardio vascular health and preventing the onset of diabetics and maintain a healthy weight.
Potential yield	-
Critical input, quantity and cost	Whole wheat flour : 20 kg, Ragi : 20 kg, Bajra :20 kg, Little millet : 20 kg, Roasted green gram dhal : 5 kg, Roasted bengal gram dhal : 5kg, Jaggery 20 kg, Fat : 5 kg, Cardomom : 200gm, Hand extruders : 3, Milk : 10 lit, Packing materials : 500 Nos, Weighing balance : 1 Nos, Field board : 1 No.
Farmers practice	Consumption of rice
Source of input	Local market
Photos	
Average farmers yield	-
Season	Rabi 2024-25
No. of Demos (replications)	5
Total cost for the Demo	**Rs. 19700.00**
Parameters to be studied:	Shelf life, consumer acceptability, BCR
Parameters to be reported	Shelf life, consumer acceptability, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Home Science, SMS – Agronomy and Senior Scientist and Head

19. Demonstration on herbal garden

FLD No.	**19**
Status (New proposal/2nd year /3rd year)	Direct FLD (New)
Subject	Home Science
Category:	Herbal garden
Crop/ enterprise:	Herbals
Farming situation	-
Prioritized problem:	Lack of awareness on herbal usage and their cultivation practices
Title	**Demonstration on herbal garden**
Technology to be demonstrated:	Establishment of herbal garden.
Hybrid or Variety:	-
Source of Technology:	TNAU- 2015
Description	▪ Herbal plants offer a natural and sustainable way to promote good health and well being of humans. Herbal plants contain compounds of therapeutical properties such as antiinflammatory, antioxidants and antibacterial effects.
Potential yield	-
Critical input, quantity and cost	▪ Seedling (betel wine, karpooravalli, Bryophyllum, vitex negundo, holi basil, galangal, Brahmi, Clerodenrum phlomides, long pepper, Cissus quadrangularis – each varieties 5 no.s) ▪ Tools : 5 set, ▪ Field board -5 Nos.
Farmers practice	Limited use of available herbs as medicines
Source of input	KVK Thiruvannamalai
Photos	
Average farmers yield	-
Season	Kharif 2024
No. of Demos (replications)	5
Total cost for the Demo	**Rs. 6000.00**
Parameters to be studied:	Yield, BCR
Parameters to be reported	Yield, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS – Home Science, SMS – Horticulture and Senior Scientist and Head

9.3. National Food Security Mission (NFSM)

9.3.1. Cluster Frontline Demonstrations on Pulses

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
Pulses	Blackgram	Lack of awareness on improved varieties, Poor tolerance to drought, Cultivation of VBN4, Non availability of bold varieties, Incidence of YMV, Sucking pest and Spodoptera, Low yield.	▪ Seed treatment with *Rhizobium* @ 200 gm, *Bacillus subtillis* 10 gm/kg and *T. asperellum* 4 gm /kg of seed. ▪ Soil application of *Rhizobium* and *Phosphobacteria* @ 2.5 kg /ha each, *Bacillus subtillis* 2.5kg/ha and *T. asperellum* @ 2.5 kg / ha. ▪ Foliar spray of TNAU pulse wonder 5 kg/ha at pre flowering and Yellow sticky trap @ 12 no./ha. ▪ Application of NPV @ 625 SL/ha during incidence.	Variety	VBN-11/ VBM-8	TNAU

Crop/ enterprise	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 member
Blackgram	VBN 11 / VBN 8 Seeds, Rhizobium, Phosphobacteria, *Bacillus subtilis, Trichoderma asperellum*, TNAU pulse wonder, Neem oil, Yellow sticky traps, Indoxicarb 10% EC, MN Mixture & NPV 250 SL.	▪ VBN 11/ 8 Seeds - 8 Kgs. ▪ Rhizobium - 1 Kg. Phosphobacteria - 1 Kg. ▪ *B.subtilis* - 2 Kg. ▪ *T. asperellum*- 2 Kgs, ▪ TNAU pulse wonder-2kgs. ▪ Neem oil-250 ml. ▪ Yellow sticky trap - 5 nos. ▪ Indoxicarb 10% EC-100ml. ▪ NPV 250 SL- 250 ml. ▪ Soil health card.	3600.00	200	720000.00	▪ Plant population/ sqm. ▪ No. of branches /plant. ▪ Yield (q/ha). ▪ BCR	SMS Agronomy, SMS Plant Protection, Senior Scientist and Head.

9.3.2. Cluster Front Line Demonstrations on Oil Seeds

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
Oilseeds	Groundnut	Lack of awareness on the new varieties, Less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, rust and Spodoptera, Leaf minor, Low yield	▪ Demonstration of TMV-14/ VRI-10/TCGS-1694 groundnut variety. ▪ Seed treatment and soil application of Rhizobium @ 1 kg /acre. ▪ Seed treatment and soil application of T.asperellum and *Bacillus subtilis* (Consortia) @ 2 kg /acre each. ▪ Basal application of micronutrient mixture @ 5 kg /acre. ▪ Foliar application of groundnut rich @ 2.25 kg/acre at 30 and 45 DAS. ▪ Application of gypsum @ 160 kg/acre at Basal and 45 DAS.	Variety	TMV-14 VRI-10 TCGS-1694	TNAU & RARS Tirupathi
	Sunflower	Lack of awareness on the new hybrids, Cultivation of local varieties, Susceptible to rust and downy mildew, Low yield	▪ Demonstration of KBSH 44 Sunflower variety ▪ Seed ▪ Seed treatment and soil application of *Trichoderma asperellum, Bacillus subtilis* @ 1 kg /acre each. ▪ Incorporation of TNAU MN mixture @ 2kg/acre as enriched FYM ▪ Spraying of NAA at 20PPM on 30th and 60th day	Hybrid	KBSH44	AICRP, Bengaluru

Crop/ enterprise	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 member
Groundnut	Groundnut Seed, *Bacillus* *Trichoderma*	33 kg 2 kg 2 kg	4800.00	100	**480000.00**	▪ Plant population/ sqm. ▪ No. of pods /plant. ▪ Yield (q/ha). ▪ BCR	SMS Agronomy, SMS Plant Protection, Senior Scientist and Head.
Sunflower	Sunflower seed *Bacillus* *Trichoderma*	2 kg 1 kg 1kg	2400.00	25	**60000.00**	▪ Plant population/ sqm. ▪ No. of head/plant. ▪ Yield (q/ha). ▪ BCR	SMS Agronomy, SMS Plant Protection, Senior Scientist and Head.

10. Special Programmes

S. No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
1	Integrated farming system	Low income, Poor Employment, Poor resource recycling, Lack of knowledge on scientific farming.	Integrated farming system	ICAR	4	4	▪ Chicks – 2 farmers. ▪ Vermicompost - 2 farmers	40000.00	SS & Head, SMS Animal Science, SMS Agronomy.
2	FFS	Low yield, Pest and disease incidence	ICM in paddy	TNAU	1	0.4	-	30000.00	SS & Head, SMS Agronomy, SMS Plant Protection
3	NFDB	-	-	-	-	-	-	-	-
4	SERP	-	-	-	-	-	-	-	-
5	Enterprise	-	-	-	-	-	-	-	-

11. Externally funded projects

11.1. Projects summary

S.No.	Title	Funding agency	Duration in years	Year of start	Physical details (no. of programmes, participants, area etc.)	Total budget (Rs)	Current year budget (Rs)	Team Members Involved
1	Food Processing Training Centre	Ministry of food processing	10	2014-15	3 Nos (60 participants)	1500000/-	-	SMS–Home Science , SS & Head
2	Livelihood and Enterprise Development Programme	NABARD	1.6	2024-25	60 SHG members	889750/-	-	SMS Home Science and SS & Head
3	STRY : Production and processing of Medicinal Aromatic plants. Seed production and processing of field crops	Department of Agriculture	0.6	2024-25	30 Rural youth	84000.00/-	-	SMS Home Science, SMS Agronomy SMS Horticulture, and SS & Head

11.2. Project details

1. Food Processing Training Centre

Funding Agency	Ministry of food processing
State/Central/Over Seas	Central
Title	Person power development in rural areas through Food Processing and Training Center.
Objectives	To promote more number of food processing units for the farmers' economic upliftment.
Study area	Thiruvannamalai district.
Methodology	Training and demonstrations
Team Members	SMS Home Science, Senior Scientist and Head i/c,
Budget	**Rs. 1500000/-**One time during the year of starting (2014-15)

2. Livelihood and Enterprise Development Programme

Funding Agency	NABARD
State/Central/Over Seas	Tamil Nadu
Title	Livelihood Improvement of Rural Women through training on Novel Products from Millets, Traditional Rice, Groundnut based products, Milk and Herbals for matured SHGs" in Thiruvannamalai District

Objectives	❖ To impart knowledge on value addition in millets, traditional rice, groundnut based products, milk and locally available herbals. ❖ To provide marketing avenues for millets, traditional rice, groundnut based products, milk and locally available herbal based products.
Study area	Thellar block of Thiruvannamalai district
Methodology	Training, Demonstration and credit linkage with bankers
Team Members	SMS Home Science and Senior Scientist and Head
Budget	**Rs. 889750/-**

3. STRY : Production and processing of Medicinal Aromatic plants. Seed production and processing of field crops

Funding Agency	NABARD
State/Central/Over Seas	Tamil Nadu
Title	Production and processing of Medicinal Aromatic plants. Seed production and processing of field crops.
Objectives	❖ To impart knowledge on Medicinal and Aromatic plants cultivation and their post harvest technologies. ❖ To facilitate knowledge on improved seed production technologies and their marketing to the farmers.
Study area	Thiruvannamalai district
Methodology	Training and Demonstration
Team Members	SMS Home Science, SMS Agronomy, SMS Horticulture and Senior Scientist and Head
Budget	**Rs. 84000/-**

12. Trainings planned during 2024-25

12.1. Trainings for Farmers and Farm Women planned during 2024-25

S.No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
1	Crop Production	Paddy	Lack of awareness on season specific varieties, Low yield, lack of awareness on IPDM	**FLD:** Demonstration of Paddy variety RNR 15048	ICM practices for paddy	3	60	SMS Agronomy, SMS Plant protection., SS & Head
2	Crop Production	Finger millet Pearl millet, Little millet	Cultivation of long duration and old varieties, Lack of awareness on high yielding variety, High incidence of pest and disease.	**OFT:** Assessment of Finger millet varieties for higher yield **OFT:** Assessment of Finger millet intercropping with blackgram	ICM practices for Finger millet	4	80	SMS Agronomy, SMS Plant protection., SS & Head

3	Crop Production	Redgram Blackgram, Greengram,	Cultivation of low yielding varieties, Severe incidence of YMV, Sterility mosaic virus, Powdery mildew, Shattering during harvest, Long duration, Labour intensive, Low yield.	**OFT:** Assessment of Drought management strategies for improving yield in Blackgram **FLD:** Demonstration of Redgram variety CO 8	ICM practices for pulses	4	80	SMS Agronomy, SMS Plant protection., SS & Head
4	Crop Production	Groundnut	Lack of awareness on the new varieties, less drought tolerant, Cultivation of VRI 2, Incidence of Root rot, leaf spot, rust and Spodoptera, Low yield.	**FLD:** Demonstration of TNAU vigour plus seed booster	ICM practices for groundnut	3	60	SMS Agronomy, SMS Plant protection., SS & Head
5	Crop Production	Maize	Cultivation of old varieties, Lack of knowledge on high yielding & drought tolerant varieties, Poor yield, Lack of knowledge on value addition. High incidence of Fall army worm.	**OFT:** Assessment of Maize Hybrid varieties for higher productivity	Improved maize production technologies	2	40	SMS Agronomy, SMS Plant protection, SS & Head

6	Crop Production	Sugarcane	Lack of awareness on the new varieties, Irrigation schedule, Low yield and lack of knowledge about cultivation practices	**FLD:** Demonstration of Sugarcane Booster	ICM practices for sugarcane	3	60	SMS Agronomy, SMS Plant protection, SS & Head
7	Horticulture	Ridge gourd Bitter gourd, Bottle gourd,	Low fruit set, Lack of adoption of improved production technologies, Maleness	**FLD**: Demonstration of Ridge gourd variety MDU 1	Precision farming technologies	3	60	SMS Horticulture, SMS Plant protection Senior Scientist and Head
				FLD: Demonstration of Bottle gourd PLR 2	ICM in cucurbits	3	60	
8	Horticulture	Cassava	Low tuber yield and weight	**OFT :** Integrated Nutrient Management in Cassava	Precision farming technologies	2	40	SMS Horticulture, SMS Plant protection Senior Scientist and Head
9	Horticulture	Brinjal, Chillies, Tomato	Low yield, Flower drop, Lack of adoption of location specific hybrids/varieties, Lack of application of growth regulators, Lack of adoption of improved technologies, Imbalanced nutrition,	**OFT :** Assessment of Improved hybrids for higher productivity in Tomato **OFT:** Assessment of brinjal variety	ICM and INM technologies	6	120	SMS Horticulture, SMS Plant protection Senior Scientist and Head.

				for higher productivity **FLD:** Demonstration of ICM in chilli				
		Bhendi	Lack of adoption of improved production technologies	**OFT:** Assessment of bhendi hybrids for higher productivity **FLD:** Demonstration of CSR Grow sure in bhendi	ICM and INM technologies	2	40	SMS Horticulture, SMS Plant protection Senior Scientist and Head
10	Horticulture	Vegetables	Low germination rate, Poor quality seedlings and field establishment	-	Improved nursery management technologies	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head.
			Lack of knowledge on organic farming technologies	**-**	Organic vegetable production technologies	2	40	SMS Horticulture, SMS Plant protection Senior Scientist and Head

11	Horticulture	Fruits	Lack of knowledge of propagation techniques in fruit crops	-	Propagation techniques in fruit crops	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head
12	Horticulture	Flower	Lack of knowledge on pruning methods, Growth regulator application and improved production technologies	-	Improved production technologies in Jasmine	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head
13	Horticulture	Fruits	Lack of knowledge on dryland horticulture and improved techniques.	-	Dry land horticulture	1	20	SMS Horticulture, Senior Scientist and Head
14	Fodder Production and Management	Fodder	Feeding of low protein fodder for dairy animals Lack of awareness about cultivation of fodder crops.	-	Mixed fodder production technology	1	20	SMS Agricultural Extension. SMS Animal Science

15	Livestock Production and Management	Cow	Milk fever is one of the transition period metabolic disease most common in mature dairy cows which occurs due to the deficiency of calcium Low milk fat content in the milk is a major issue in dairy farming. Low market price for milk containing low milk fat	**OFT:** Assessment of anionic powder for milk fever in High yielding milch cow **OFT :** Assessment of Milk fat modulator in milch cow	Dairy management	3	60	SMS Animal Science, SS & Head
			The ticks, fleas, sucking and biting lice are major issues in milk production. It will affect the feed intake in turn it will reduce the milk production. Low milk production, High disease incidence. Infertility due to repeat breeding, Lack of awareness on clean milk production.	**FLD:** Demonstration of Megatex spray for management of Ectoparasite in Cow **FLD:** Demonstration of TANUVAS GRAND to improve milk production in Cow	Integrated Disease management in cow	3	60	SMS Animal Science, SS & Head
			Lack of awareness on clean milk production.	-	Clean milk production	2	40	SMS Animal Science, SS & Head

			High cost of feed, Lack of awareness on low cost feed formulation.	-	Feed production and management	2	40	SMS Animal Science, SS & Head
16	Livestock Production and Management	Sheep & Goat	The ticks, fleas, sucking, biting lice and wound are major issues in Goat production. it will affect the feed intake in turn it will reduce the growth of animals.	**FLD:** Demonstration of Nano Heal Cream in Goat	Integrated Nutrient Management	2	40	SMS Animal Science, SS & Head
					Integrated Disease management in sheep and goat	2	40	
					Importance of deworming and vaccination in small ruminants	2	40	
17	Poultry Production and Management	Poultry	Lack of awareness on improved breeds, Low body weight, High mortality in backyard condition, Low disease resistance**.**	**FLD :** Demonstration of Star Chicken under backyard condition .	Production and Disease management in native chicken	2	40	SMS Animal Science, SS & Head
			Lack of awareness on improved breeds, Low body weight, Low number of eggs		Backyard poultry farming	2	40	SMS Animal Science, SS & Head

			High feed cost, Imbalanced nutrient supply of scavenging birds.	-	Feed management in poultry	2	40	SMS Animal Science, SS & Head
		Quail	Lack of awareness on improved breeds, Low number of eggs	-	Japanese quail farming	2	40	SMS Animal Science, SS & Head
18	Home Science/Women empowerment	Paddy, Millets& Pulses	Lack of awareness value addition in traditional rice in millets. Low market price. Lack of awareness on alternate sources for refined wheat flour.	-	Preparation of traditional rice and millet based products.	2	40	SMS Home science, SS & Head
19	Home Science/Women empowerment	Pulses	Lack of awareness on storage methods, high incidence of storage pests.	-	Demonstration on post harvest management in pulses	2	40	SMS Home science, SS & Head
20	Plant Protection	Paddy	Lack of awareness on IPDM practices, Blast, Stem borer, leaf folder, Leaf spot, BLB, False smut and BPH, Rat and wild boar damage.	**OFT:** Assessment of IDM practices for the management of false smut disease in rice **FLD:** Demonstration on IPDM in Paddy	Integrated pest & disease management in paddy	5	100	SMS Plant protection, SMS Agronomy SS & Head

21	Plant Protection	Maize	Lack of awareness on IPDM practices, fall army worm, downy mildew.	-	Integrated pest management in maize	1	20	SMS Plant protection, SMS Agronomy SS & Head
22	Plant Protection	Blackgram, Greengram	Lack of awareness on Resistant variety, pod borer and Poor yield. Severe incidence of YMV	**FLD:** Demonstration of mung bean yellow mosaic virus resistant black gram Variety LBG 884	Integrated pest & disease management	3	60	SMS Plant protection, SMS Agronomy SS & Head
23	Plant Protection	Groundnut	Incidence of root rot, tikka leaf spot, Rust Spodoptera and Helicoverpa and wild boar. Poor yield.	**OFT:** Assessment of IDM practices for Groundnut root rot disease **FLD :** Demonstration of Wild Boar Bio-Repellent in Groundnut	Integrated pest & disease management in Groundnut	3	60	SMS Plant protection, SMS Agronomy SS & Head
24	Plant Protection	Sugarcane	Yield loss due to different borers and severe incidence of root grub.	-	Integrated pest management in sugarcane	1	20	SMS Plant protection, SMS Agronomy SS & Head

25	Plant Protection	Banana	Lack of knowledge on wilt, Nematode, weevil, leaf spot, Improper management practices and lack awareness on IPDM.	-	Integrated disease management	2	40	SMS Plant protection, SMS Horticulture. SS & Head
26	Plant Protection	Tomato	Lack of knowledge on disease resistant hybrids, Pinworm, wilt, root rot, early blight, helicoverpa, Tospo virus, Whitefly, Nematode incidence	**OFT :** Assessment of biological methods for management of root knot nematode in Tomato	Integrated Nematode management	1	20	SMS Plant protection, SMS Horticulture. SS & Head
27	Plant Protection	Brinjal, Chilli	Thrips, die back, powdery mildew, Shoot and Fruit borer, wilt, root rot, little leaf and blight, yield loss.	**FLD:** Demonstration of IPDM in Chilli	Integrated pest and disease management	3	60	SMS Plant protection, SMS Horticulture. SS & Head
28	Plant Protection	Biter gourd, Snake gourd & Watermelon	Severe incidence of fruit fly, mosaic, sucking pests, poor yield.	-	Integrated pest and disease management	1	20	SMS Plant protection, SMS Horticulture.
29	Plant Protection	Sugarcane Banana	Yield loss due to different borers and severe incidence of root grub.	-	Integrated pest management in sugarcane	1	20	SMS Plant protection, SMS Agronomy SS & Head
			Lack of knowledge on wilt, Nematode, weevil,	-	Integrated disease	1	20	SMS Plant protection,

			leaf spot, Improper management practices and lack awareness on IPDM.		management			SMS Horticulture. SS & Head
		Tomato	Lack of knowledge on disease resistant hybrids, Pinworm, wilt, root rot, early blight, helicoverpa, Tospo virus, Whitefly, Nematode incidence	**OFT :** Assessment of biological methods for management of root knot nematode in Tomato	Integrated Nematode management	1	20	SMS Plant protection, SMS Horticulture. SS & Head
30	Fisheries	Fish farming	High incidence of mortality due to *Aeromonas hydrophila.* Low yield in existing varieties (4 t/ha.). Higher cost of feed	**-**	Fish farming	2	40	SMS Animal Science, SMS SS & Head
31	Production of Inputs at site	Vermi compost	Low soil fertility, Low yield, Lack of knowledge on composting techniques	**-**	Compost production technology	2	40	SMS Agronomy, SMS Agrl. Extn.
32	Capacity Building and Group Dynamics	Producer company	Low market price	-	Various Business Avenues in agriculture.	2	40	SMS Agrl. Extn. SS and Head
		ICT	Poor technology transfer mechanism and lack of awareness on soil fertility	**-**	Mobile apps	2	40	SMS Agrl. Extn. SMS Animal Science

33	Agro-forestry	Forest trees	Lack of awareness on improved agro forestry systems	-	Agro forestry systems for income generation	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head
34	Others – Value addition	Herbal garden	Lack of awareness on herbal usage and post harvest management technologies.	**FLD:** Demonstration on herbal garden	Herbal garden for common ailments	3	60	SMS Home science, Horticulture, SS and Head
35	Others- Value addition	Groundnut	Lack of awareness on non dairy flavoured milk and Low market price.	-	Preparation of groundnut based value added products.	2	40	SMS Home science, SMS Agrl. Extn.
36	Others- Value addition	Millets	Lack of awareness on millet value addition, Low market price.	**FLD:** Demonstration on millet based value added products – EDP mode	Value addition in millet based products	2	40	SMS Home science, SMS Agrl Extn., SS and Head
37	Others- Value addition	Sugarcane	Lack of awareness on value added products from sugarcane	**FLD:** Demonstration of Sugarcane jam	Value added products from sugarcane	2	40	SMS Home science, SMS Horticulture, SMS Agrl. Extn.
38	Others- Value addition	Fruits and Vegetables	Low market price during season, lack of awareness in value addition.	**-**	Preparation dehydrated vegetables	3	60	

39	Others- Value addition	Milk	Low shelf life of paneer, Bland flavour of paneer, Lack of variety in paneer.	-	Preparation of spice and herbs incorporated panneer	3	60	SMS Home science, SMS Animal Science, SMS Agrl. Extn
40	Drudgery reduction	Field crops	Acute labour scarcity, Time consuming process, lack of knowledge in women friendly equipments.	-	Drudgery reducing farming equipments	1	20	SMS Home science, SMS Agrl. Extn
41	Nutri-gardern	Nutri-gardern	Lack of awareness on nutri-garden and balanced diet	-	Establishment of nutrigarden for balanced diet	2	40	SMS Home science, SMS Agrl. Extn
TOTAL					**-**	**120**	**2400**	-

12.2. Trainings for Rural Youth planned during 2024-25

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
1	Nursery Management of Horticulture crops	Vegetables	Shortage of availability of quality planting materials	-	Nursery Seedling production in vegetable crops	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head
2	Training and pruning of orchards	-	-	-	-	-	-	-
3	Protected cultivation of vegetable crops	-	-	-	-	-	-	-
4	Commercial fruit production	-	-	-	-	-	-	-
5	Integrated farming	Enterprises	Lack of awareness	-	Awareness on IFS	1	20	All SMS
6	Seed production	Groundnut	Lack of knowledge about oilseeds cultivation	-	Production Technology for Groundnut cultivation	1	20	SMS Agronomy, SMS Plant Protection

7	Production of organic inputs	Paddy	Lack of awareness	-	Traditional Preparations as organic inputs	1	20	SMS Agronomy, SMS Plant Protection, SS & Head
		Field and horticultural crops	Intensive application of pesticides, Residual effects, Resurgence development and Lack of knowledge on bio pesticides.	-	Bio pesticides production	1	20	SMS Plant protection SMS Agrl Extn.,
					Organic method of pest & disease management	1	20	SMS Plant protection SMS Agrl Extn.,
		Horticultural crops	Low productivity and soil fertility reduction	-	Organic farming in horticultural crops	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head
8	Planting material production	Fruit crops	Lack of knowledge on production of fruit seedlings	-	Propagation techniques in fruit crops	1	20	SMS Horticulture, SMS Plant protection Senior Scientist and Head
9	Vermi-culture	-	-	-	-	-	-	-

10	Mushroom Production	Mushroom	Lack of knowledge on alternate variety, Low income	-	Production technologies for oyster mushroom	2	40	SMS Plant protection, SMS Home science, SS & Head
11	Bee-keeping	Bee Keeping	Lack of awareness on bee keeping, Low income.	-	Bee keeping technologies	1	20	SMS Plant protection, SS & Head
12	Sericulture	-	-	-	-	-	-	-
13	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-
14	Value addition	Millets	Lack of awareness in value addition, Low market price during season.	-	Preparation millet based value added products	2	40	SMS Home science, SMS Agronomy, SS & Head
		Mushroom	Lack of awareness in value addition.	-	Preparation of value added products in mushroom	1	20	SMS Home science, SMS Plant Protection, SS & Head.
15	Small scale processing	-	-	-	-	-	-	-
16	Post Harvest Technology	-	-	-	-	-	-	-
17	Tailoring and Stitching	-	-	-	-	-	-	-
18	Rural Crafts	-	-	-	-	-	-	-
19	Production of quality animal products	-	-	-	-	-	-	-

20	Dairy farming	-	-	-	-	-	-	-
21	Sheep and goat rearing	Goat	Lack of awareness on scientific goat farming	-	Scientific goat farming	1	20	SMS Animal Science, SMS, SS & Head
22	Quail	-	-	-	-	-	-	-
23	Piggery	-	-	-	-	-	-	-
24	Rabbit farming	-	-	-	-	-	-	-
25	Poultry production	Desi birds	Lack of knowledge on improved breeds, Low egg production, Low feed efficiency	-	Backyard poultry farming	1	20	SMS Animal Science, SMS, SS&H
26	Ornamental fisheries	-	-	-	-	-	-	-
27	Composite fish culture	-	-	-	-	-	-	-
28	Freshwater prawn culture	-	-	-	-	-	-	-
29	Shrimp farming	-	-	-	-	-	-	-
30	Pearl culture	-	-	-	-	-	-	-
31	Cold water fisheries	-	-	-	-	-	-	-
32	Fish harvest and processing technology	-	-	-	-	-	-	-
33	Fry and fingerling rearing	-	-	-	-	-	-	-
34	ICT	-	-	-	-	-	-	-
Total						**16**	**320**	-

12.3. Trainings for Extension Personnel planned during 2024-25

S. No	Thematic area	Training Course Title	No. of Courses	No. of Participants
1	Productivity enhancement in field and horticultural crops	Advanced production technologies in agricultural crops	1	25
		Recent technologies in horticultural crops	1	25
2	Integrated Pest Management	Advances on pest and disease management in agriculture	1	25
3	Integrated Nutrient management	-	-	-
4	Rejuvenation of old orchards	-	-	-
5	Protected cultivation technology	Protected cultivation technology for high value vegetables crops	1	25
6	Production and use of organic inputs	Bio pesticides production and their application methods	1	25
7	Care and maintenance of farm machinery and implements	-	-	-
8	Gender mainstreaming through SHGs	-	-	-
9	Formation and Management of SHGs	-	-	-
10	Women and Child care	-	-	-
11	Low cost and nutrient efficient diet designing	-	-	-
12	Group Dynamics and farmers organization	Business plan for Farmer producer company shareholders	1	25
13	Information networking among farmers	-	-	-
14	Capacity building for ICT application	-	-	-
15	Management in farm animals	Profitable dairy farming	1	25
16	Poultry production and management	Backyard poultry farming	1	25
17	Household food security	-	-	-
18	Any other-Organic farming	-	-	-
19	Any other-Value addition	Value addition in millet	1	25
20	Any other-Value addition	Value addition in groundnut	1	25
Total			**10**	**250**

12.4. Skill trainings and vocational trainings planned during 2024-25

S. No.	Training title	Duration (Days)	No. of programmes	Sponsoring agency	Participants (Nos.)	Name of the team members
1	Natural Farming/Organic farming	3 days	1	-	15	SMS Agronomy, SS & Head
2	Bio pesticides production and application.	3 days	1	-	15	SMS Plant Protection, SS & Head
3	Improved nursery management in fruit and vegetable crops.	3 days	1	-	15	SMS Horticulture, SS & Head
4	Value addition in fruits and vegetables	3 days	1	-	15	SMS Home science, SMS Horticulture, SS& Head
5	Poultry rearing	3 days	1	-	15	SMS Animal Science, SS & Head
Total Courses		**-**	**5**	-	**75**	-

12.5. Sponsored trainings planned during 2024-25

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	Crop production	Skill training under STRY	2 (6 Days)	Rural Youth	30	Department of Agriculture, Thiruvannamalai	SMS Agronomy SMS Plant Protection

2	Value addition	Livelihood Improvement of Rural Women through training on Novel Products from Millets, Traditional Rice, Groundnut based products, Milk and Herbals for matured SHGs" in Tiruvannamalai District" under LEDP	2 (20 days)	SHGs	60	NABARD	SMS Home science, SMS Agronomy SMS Horticulture SMS Animal Science Senior Scientist and Head
3	Value addition (Fruits & vegetables)	Fruits and vegetable preservation techniques.	1 (3 days)	Women	20	National Mission on Food Processing	SMS Home science, SMS Horticulture
	Value addition (Field crops)	Preparation of instant mix.	1 (3 days)	Women	20		SMS Home science, SMS Agronomy
	Value addition (Field crops)	Preparation of Bakery products.	1 (3 days)	Women	20		SMS Home science, SMS Agronomy
Total					**150**	**-**	**-**

13. Extension programmes planned during 2024-25

S. No.	Extension programme	No. of programmes	No. of Participants	Team member involved
1	Advisory Services	30	210	Senior Scientist and Head, SMS Agrl. Extension, SMS Agronomy, SMS Horticulture, SMS Home Science, SMS Plant Protection, SMS Animal Science.
2	Diagnostic visits	5	125	
3	Field Day	15	450	
4	Group discussions	5	180	
5	Kisan Ghosthi	1	100	
6	Film Show	15	225	
7	Kisan Mela	2	200	
8	Exhibition	2	600	
9	Scientists' visit to farmers field	50	400	
10	Plant/Soil health/Animal health camps	12	800	
11	Ex-trainees Sammelan	2	80	
12	Farmers' seminar/workshop	1	50	
13	Method Demonstrations	20	400	
14	Celebration of important days	5	500	
15	Special day celebration	2	200	
16	Exposure visits	2	50	
17	Technology week	1	450	
18	FFS	1	25	
19	Farm innovators meet	1	30	
20	Awareness programs	5	350	
21	Lecture delivered	55	1800	
	Total	**232**	**7225**	
Other Extension Activities				
22	TV/Radio Programme	12	0	
23	News clips	60	0	
24	Popular Articles	10	0	
25	Research Article	2	0	
26	Extension Literatures	12	6000	
27	Kisan Mobile Advisory Services	25	27000	
	Advisory service other than Mkisan service	30	45000	
	Total	**151**	**78000**	

13.1 Extension Studies

a. Analyzing of Factors Influencing Spread and Adoption of Organic/Natural Farming

Title	**Analyzing of Factors Influencing Spread and Adoption of Organic/Natural Farming**
KVKs Involved	KVKs promoting natural farming / Organic farming in Tamil Nadu region.
Rationale	▪ Agro climatic zone wise, District wise scope of Organic Farming is yet to be zeroed in on. ▪ Arriving at Organic Map for Tamil Nadu is a long pending research endeavour cries for attention.
Objective	▪ To understand the typology and pattern of Organic farming across Seven Agro Climatic Zones of Tamil Nadu. ▪ To analyse the factors responsible for spread and adoption of Organic Farming practices across Agro Climatic zones. ▪ To ascertain different pathways based on combination of factors analysed.
Methodology	Exploratory and Ex- post facto Research Design
Expected Outcome	▪ The project culminates in the delineation of crop wise, district wise and zone wise intensity of Organic Farming which is first of its kind. ▪ The combination of factors responsible for differential intensity of Organic farming which is going to be unveiled through this project will give research and policy directions. ▪ The Organic Atlas of Tamil Nadu which may be ultimate outcome of the project would serve as a reference or ready reckoner for the KVK.
Budget	**Rs.20,000/-** (Survey schedule, focused group discussions / meetings).

b. Impact of KVK Interventions in Diffusing IPM Practices among the farmers

Title	Impact of KVK Interventions in Diffusing IPM Practices among the farmers.
KVK included	KVKs promoting IPM practices in paddy across Tamil Nadu.
Rationale	▪ KVKs implementing FLD/OFT/Training on IPM practices, but the effect of intervention on knowledge and adoption. ▪ There was no data available on quantifiable behaviour change among the farmers of Tamil Nadu.

Objective	▪ To study the knowledge and adoption level of farmers on pesticide usage ▪ To understand factors determining behaviour change of farmers towards adoption of IPM practices
Methodology	Experimental or quasi experimental study
Expected Outcome	▪ Factors responsible for behaviour change may be unearthed and pathway might be found. ▪ It will be useful to design future strategies
Budget	**Rs.20,000/-** (Survey schedule, focused group discussions / meetings).

c. Impact of SC/SP programmes implemented by KVKs in Tamil Nadu

Title	**Impact of SC/SP programmes implemented by KVKs in Tamil Nadu**
KVK included	KVKs implementing SCSP programme across Tamil Nadu.
Rationale	▪ KVKs are implementing various activates under SCSP programme for the years together but the effectiveness of the programme are not known.
Objective	▪ To understand the needs and effectiveness of the vulnerable community district wise. ▪ To analyse the factors responsible for spread and adoption of various activities. ▪ To measure the adoption level under each activities.
Methodology	Ex- post facto Research Design
Expected Outcome	▪ Planning of activities of KVK according to the major needs of SCSP category. ▪ Replication the outcome of the study in the state level. ▪ Measuring the income and standard of living of the specific community.
Budget	**Rs.20,000/-** (Survey schedule, focused group discussions / meetings).

14. Activities proposed as Knowledge and Resource Centre during 2024-25

14.1. Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
1	Technology Park/ Crop cafeteria	Paddy ADT36	0.001	SMS Agrl. Extn., SMS Agronomy SMS Plant protection, Farm manager
		Groundnut TMV(Gn)14	0.001	
		Groundnut TCGS 1694	0.001	
		Redgram BRG1	0.001	
		Brinjal Arka neelanchal shyama	0.02	SMS Horticulture, SMS Plant protection, SMS Agrl. Extn. Farm manager
		Bhendi Arka nikita	0.01	
		Tomato COTH4	0.02	
		Multi fruit garden	0.02	
		Nutrigarden	0.02	
		Herbal garden	0.02	
2	Demonstration Units	Azolla production unit	1 No	SMS Agronomy SMS Agrl. Extn. Farm manager
		Vermicompost production	1 No	
		Food processing units	1 No	SMS Home Science SMS Agril. Extn.
		Fruit orchard	7.0	SMS Horticulture SMS Plant Protection Farm manager
		Miyawaki Agroforestry	0.34	
		Mushroom production	1 No	SMS Plant protection
		Bee hives	5 No	SMS Plant Protection Farm manager
		Poultry	1 No	SMS Animal Science Farm manager
		Dairy	1 No	
		Goatery	1 No	
		Quail	1 No	
		Turkey	1 No	
		Fish	1 No	
		Hatchery	1 No	
		Fodder cafeteria	1 No	
		Nursery	1 No	SMS Horticulture Farm Manager
		Mist Chamber	1 No	

3	Lab Analytical services	Soil	1 No	PA Lab Technician SMS Plant Protection
		Water		
		Plant	1 No	
4	Technology Week	Drought mitigation technologies for Groundnut and pulses. Direct sown paddy Mechanization in groundnut Integrated Organic farming System IPDM modules Scientific livestock farming Precision farming in vegetables High density planting in fruit crops. Soil health enhancement Foliar nutrition Value addition in millets	1 No	All staff

14.2 Technological products planned to be produced in the KVK during 2024-25

Sl. No.	Category	Name of the product	Quantity (Qtl.)/ Number planned to be produced during 2024-25	Names of the team members involved
1	Seeds	Paddy ADT-36, CO55	67	SMS Agronomy SMS Plant protection SMS Agrl. Extn. Farm Manager
		Groundnut TMV(Gn)14	7	
		Groundnut TCGS 1694	10	
		Redgram BRG1	0.5	
		Blackgram	0.5	
		Fodder seeds	5	
		Native vegetable seeds	0.5	
2	Planting materials	Fruit plants	1200	SMS Horticulture SMS Plant protection SMS Animal Science Farm Manager
		Coconut seedlings	300	
		Forest Tree seedlings	1000	
		Fodder setts	5000	
3	Livestock strains	Goat (Nos)	25	SMS Animal Science Farm Manager
		Poultry desi birds	1000	
		Quail	1000	

4	Bio-products	*T.asperellum*	5	SMS Plant protection PA Lab technician
		B.subtilis	5	
		Vermicompost	90	SMS Agronomy SMS Plant Protection Farm Manager
		Vermiworms	0.5	
		Azolla	1	
5	Mushroom	Spawn	0.5	SMS Plant Protection PA Lab technician
6	Micronutrient formulation	Vegetable special	3	SMS Horticulture PA Lab technician

14.3. Technological Information

14.3.1. Technology backstopping to line departments

S.No	Category	Technological capsules / Number	Names of the team members involved
1	Agriculture	ICM in Paddy	SMS Agronomy SMS Plant Protection Senior Scientist and Head
		ICM in Blackgram	
		ICM in Groundnut	
		ICM in Millets	
2	Horticulture	Precision farming in vegetables	SMS Horticulture, Senior Scientist and Head
		Nursery Management in horticultural crops	
		Organic farming in horti crops	
3	Plant protection	Integrated pest and disease management in location specific crop.	SMS Plant Protection, Senior Scientist and Head
		Organic and bio inputs preparation and its application	
		Oyster mushroom production.	
4	Animal Science	IDM in livestock and poultry.	SMS Animal Science Senior Scientist and Head
		Fodder production and management	
5	Home science	Nutri-garden/herbal and value addition of fruit and vegetables	SMS Home Science, SMS Plant protection Senior Scientist and Head.
		Value addition in millets	

14.3.2. Publications planned

S.No	Category of publication	Number	Names of the team members involved
1	Leaf lets	ICM in Paddy	SMS Agronomy, SMS Agrl. Extn. SMS Plant protection Sr. Scientist & Head
		ICM in millets	
		ICM in Black gram	
		Bio pesticides production technology	SMS Plant protection Senior Scientist & Head
		False smut management in Paddy	
		Growth regulator application in vegetables	SMS Horticulture
		New technologies in vegetable crops	
		Value addition in vegetables	SMS Home Science, SMS Agrl. Extn.
		Value addition in traditional rice varieties	
2	Pamphlets	ICM in groundnut	SMS Agrl. Extn. SMS Plant protection Sr. Scientist & Head
		Vermicompost production	
		ICM in Brinjal	SMS Horticulture SMS Plant protection SMS Agrl. Extn.
		ICM in cucurbits	
		ICM in Chillies	
		ICM in Turmeric	
		ICM in Tomato	
		ICM in Tuberose	
		Nursery management in vegetable crops	
		IPDM in Blackgram, Groundnut	SMS Plant protection Senior Scientist & Head
		IPDM in Brinjal & Chilli	
		Integrated nematode management in Tomato & Tuberose	
		Organic inputs preparation for pest and disease management	
		Mushroom Production technology	
		Bee keeping technologies	
		Fodder production technologies	SMS Animal Science SMS Agrl. Extn.
		Backyard poultry production	
		Japanese quail rearing	
		Value addition in fruits and vegetables	SMS Home Science
		Value addition in millets and pulses	

2	Booklet	Organic farming	SMS Agronomy SMS Plant protection Senior Scientist and Head
		Nursery management in horticultural crops	SMS Horticulture Senior Scientist and Head
		IPDM in Paddy	SMS Plant protection Senior Scientist and Head
		Production and value addition in Banana	SMS Horticulture SMS Home Science
		Fodder production technology	SMS Animal Science
		Nutritional garden for balanced diet	SMS Home Science SMS Horticulture

15. Additional (Collaborative) Activities Planned during 2024-25

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	NABARD	LEDP programme	1 No.	889750.00	All SMS
2	Department of Agriculture	STRY training	2 Nos	84000.00	

16. Revolving Fund

16.1. Status of Revolving fund

Opening balance as on 01.04.2023 (Rs.)	Receipts during 2023-24 (Rs)	Expenditure incurred during 2023-24 (Rs.)	Closing balance as on 31.03.2024 (Rs.)
1922679.00	8006046.00	8792104.00	**2708737.00**

16.2. Plan of activities under Revolving Fund during 2023-24

S.No.	Proposed activities	Expected output (Qtl / Nos)	Anticipated income (Rs.)	Names of the team members involved
1	**Seed production**			
	Paddy ADT-36, CO55	67	145000.00	SMS Agronomy SMS Agricultural Extension. Farm Manager
	Groundnut TMV(Gn)14	7	30000.00	
	Groundnut TCGS 1694	10	45000.00	
	Redgram BRG1	0.5	20000.00	

	Blackgram	0.5	12000.00	
	Fodder seeds	5	250000.00	
	Native vegetable seeds	0.5	20000.000	
2	**Planting materials**			
	Fruit plants	1200	75000.00	SMS Horticulture SMS Plant protection SMS Animal Science Farm Manager
	Coconut seedlings	300	30000.00	
	Forest Tree seedlings	1000	15000.00	
	Fodder setts	5000	5000.00	
3	**Bio-inputs**			
	Vermicompost	90	90000.00	SMS Agronomy Farm Manager
	Vermiworms	0.5	27500.00	
	Azolla	1	4000.00	
	Trichoderma asperellum	5	87500.00	SMS Plant protection PA Lab Technician
	Bacillus subtilis	5	87500.00	
4	Goat	25	100000.00	SMS Animal Science Farm Manager
5	Poultry Chicks- Desi bird	1000	40000.00	
	Japanese quail	1000	45000.00	
6	Spawn	0.5	7500.00	SMS Plant protection PA Lab Technician
	Mushroom	0.5	10000.00	
	Value added products – pickles, instant mix, Oil	5	100000.00	SMS Home science
7	**Fruit production**			
	Mango	10	40000.00	SMS Horticulture SMS Plant protection Farm Manager
	Sapota	1	3500.00	
	Tamarind	1	18000.00	
	Amla	0.5	2000.00	
	Coconut (Nos)	1000	10000.00	
8	**Vegetable production**			
	Brinjal	0.5	2000.00	SMS Horticulture SMS Plant protection Farm Manager
	Chilli	0.5	2000.00	
	Tomato	0.5	2000.00	
9	Vegetable special (MN mixture)	3	60000.00	SMS Horticulture PA Lab Technician

17. Activities of soil, water and plant testing laboratory during 2024-25

S. No.	Type	Through	No. of samples	No of soil health cards	Names of the team members involved
1	Soil	Min soil testing lab	100	100	PA Lab Technician SMS Plant Protection
		Traditional lab	700	**700**	
		AAS	-	**-**	
2	Water		100		
3	Plant		10		

18. Plan of activity for Institutional Farm

S.No.	Activity	Area (ha)	Names of the team members involved
1	Production and supply of paddy seeds	2.0	SMS Agronomy SMS Agricultural Extension, Farm Manager
2	Production and supply of blackgram seeds	2.0	
3	Production and supply of groundnut seeds	4.5	
4	Production and supply of quality fruit plants	0.1	SMS Horticulture, Farm Manager
5	Production and supply of quality Forestry tree seedlings	0.2	
6	Production and supply of quality coconut seedlings	0.1	
7	Production and sale of fruits for revolving fund	8.09	SMS Horticulture, SMS Plant Protection Farm Manager
8	Production and sale of vegetables for revolving fund	0.3	

19. Demonstration units in KVK premises

S.No.	Name of Demo unit	Capacity for production (specify units)	Names of the team members involved
1	Vermicompost and worms production	9000 kg	SMS Agronomy Farm Manager
2	Vegetable special Micro nutrient mixture	300 kg	SMS Horticulture PA Lab Technician
3	Azolla production	50 kg	SMS Agronomy Farm Manager
4	Bio pesticides and fungicides production	1200 kg	SMS Plant Protection
5	Mushroom production	100 kg	
6	Organic inputs production	500 lit	SMS Agronomy

			Farm Manager
7	Slatted floor Goat unit	25 Nos.	SMS Animal Science Farm Manager
8	Backyard poultry	1000 Nos.	
9	Japanese quail	1000 Nos.	
10	Fish	50 kgs	
11	Value added products pickles, Instant mix, Groundnut oil	500 kg	SMS Home Science

20. E-linkage activities status / proposed during 2024-25

Activity	Particulars	No. of farmers in database/ involved in activity/ downloads/ users etc
Website	Link : www.kvkthiruvannamalai.com	190880
Mobile App	Name and link : -	Smart crop mobile app is under construction.
ICT initiative	-	-
KVK portal (update status)	Infrastructure details & photos uploaded (no):20 Events uploaded : 3293 News items submitted : 116	-
KVK mobile App of ICAR	Downloaded and used by scientists (no.)	12
Other mobile Apps in use by KVK	Uzhavan, Nithra, Santhai, Pasumai Vivasayam	8 Technical experts
mKisan of DAC & FW	Messages to the district database farmers 3 in a month.	42800
Social media		
a) Whatsapp groups	No. of groups/KVK: 8	2400
b) Face book	Link : https://www.facebook.com/kvk.thiruvannamalai	4998
c) Twitter	@kvktvm	345 following, 56 followers
d) You tube	No. of subscribers	1.71K
Membership / participation in online digital platforms for services/ marketing etc.	Participated	-
KVK Blogs etc.	-	-

Collaboration with public/ private firms for audio/ video conferencing etc	Agency : ICICI foundation, Aaramadhu FPCL, SST trust, TNVKP, HAND in HAND, AAVIN MoU (Yes/No): No. No. of programs planned: 5	-
Any other	-	-

21. Farmer's Field School planned

S. No	Thematic area	Title of the FFS	No. of members in FFS group	Budget proposed in Rs. In lakhs
1	ICM	Integrated Crop Management in Paddy	25	30000.00

Details of FFS

Activity	Session-1	Session-2	Session-3
FA	Baseline collection, Problem identification and prioritization, Introduction to FFS Finalizing FFS plot, session days, drafting rules and regulations Input assessment	Main Field Preparation	Varieties uses and benefits
LTE		Soil profile study, soil sampling	
SS		--	Know your soil
ST		--	EFYM preparation
Others		Ballot Box Exercise	–
Activity	**Session-4**	**Session-5**	**Session-6**
FA	Bio fertilizers and organic manures, Field layout and sowing	Spacing, Plant population, Gap filling, sowing techniques	AESA concept
LTE	Finalizing LTEs	--	LTE observation
SS	Germination test	--	Plant nutrient uptake studies
ST	Seed & soil application with bio fertilizer	--	--
Others	Soil Test result sharing, Water holding capacity and organic manure	Spacing, Plant Population maintenance	Observations on germination
Activity	**Session-7**	**Session-8**	**Session-9**
FA	AESA	AESA, Fertilizer and micro nutrient mixture	Irrigation management Techniques.
LTE	Weeding & Intercultural operations	--	--
SS	--	-	Identification of pests
ST	Implements for weeding	Deficiency symptoms and importance of micronutrient	--
Others	Weeding operations	--	-

Activity	Session-10	Session-11	Session-12
FA	AESA, Pesticide application methods	Disease control measures	AESA
LTE	LTE observation	--	--
SS	Organic pesticides	IDM techniques	Composting techniques
ST	IPM techniques	--	Marketing options
Others	Insect Zoo	Fungicides	Groundnut value added products

Activity	Session-13	Session-14
FA	Harvesting	Field day
LTE	--	--
SS	--	--
ST	--	Economics of crop production
Others	Storage techniques	Post knowledge test - BBE

FA- Field Activity, LTE- Long Term Experiment, SS- Short Studies, ST- Special Topic, AESA – Agro Ecosystem Analysis, BBE- Ballot Box Exercise

Budget

S.No	Item	Amount (Rs.)
1	Critical inputs – Seeds, Soil Testing, Fertilizers, & Bio control agents	7,000.00
2	Main field Preparation, Inter culture operations, weeding, harvesting	2,500.00
3	Distribution of IPM Kit @ Rs 200 per kit for 25 numbers	5,000.00
4	Banner, charts, Pencil, sketch pen, field board , inaugural session refreshments and miscellaneous	3,000.00
5	Refreshment @ Rs. 30 per trainee for 14 no. of sessions 25*14**20	10,500.00
6	Field day celebration	2,000.00
Total Rs.		**30000.00**

22. Details of Innovative Farmers network established

A KVK innovative farmer's network covering 2400 farmers has been established through whatsapp messenger for the procurement and sale of agri commodities. The members of the group are regularly sharing, technical and marketing information among them. Most of the content shared has been knowledge intensive with a mix of personal farming experiences.

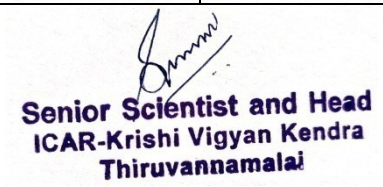
23. Budget - Details of budget utilization (2023-24) up to 31st March 2024 (Rs. In lakhs)

S. No	Particulars	Sanctioned Grant for 2023-24	Released for 2023-24	Expenditure for the period from 1-4-2023 to 31-3-2024
A	**RECURRING**			
1	**Pay & Allowances**	147.03	147.03	147.03
2	**Travelling Allowances**	3.38	3.38	3.38
	a) Field activities &programmes			
	b) Training programmes			
3	**Contingencies**			
A	*Office Contingencies*	8.00	8.00	8.00
B	*Technical Programmes including TSP/ SCSP*	15.00	15.00	15.00
	Total of Contingencies			
	Sub Total of Recurring Items (1+2+3)	**173.41**	**173.41**	**173.41**
4	**NON-RECURRING CONTINGENCIES:**			
	Works	4.00	4.00	4.00
	Furniture& Equipment (IT)	1.00	1.00	1.00
	Vehicle	0.70	0.70	0.70
	TSP (creation of physical assets)	-	-	-
	SCSP Component (Creation of Physical assets)	5.11	5.11	5.11
	Sub Total of non-recurring Items (4)	**10.81**	**10.81**	**10.81**
	GRAND TOTAL	**184.22**	**184.22**	**184.22**

24. Details of Budget Estimate (2024-25) based on proposed action plan(Rs. In lakhs)

S. No	Particulars	Budget Estimate for 2024-25
A	**RECURRING ITEMS**	
1	**Pay & Allowances**	185.00
2	**Travelling Allowances**	4.00
a	Field activities &programmes	
b	Training programmes	
3	**Contingencies**	
	Office Contingencies	
a	Stationery, telephone, stamps and other expenditure on office running	9.00
b	POL, repair of vehicles, tractor and equipment including hiring of vehicle	
4	**Technical Programmes**	8.5
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.,	
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), EDP	
l	Soil Health Card (SHC)	
m	Website/mobile app etc.	
n	SCSP Component	8.00
	Total of Contingencies	**214.50**
	Total of Recurring Items	**214.50**

S. No	Particulars	Budget Estimate for 2024-25
B	**NON-RECURRING ITEMS:**	
a	(i).Construction of Buffer roofing for seminar hall in Administrative building (2400 Sft)	10.00
	(ii) Construction of Front compound wall with entrance gate for 600 RM	30.00
	(iii) Bore well – 2Nos (450 ft each)	14.00
	(iv) Renovation of old buildings (Staff quarters and farmers hostel)	3.00
	(v) Electrical and plumbing works for Administrative building	4.50
b	Furniture and Equipment's (Office automation)	5.00
c	Computer and its accessories	5.00
d	TSP (creation of physical assets)	0.00
e	SCSP Component (Creation of Physical assets)-Model IFS unit and Farm pond	5.00
f	Lab Equipment's for Soil Testing Lab	6.00
	Total of Non-Recurring Items	**82.50**
	GRAND TOTAL (A+B)	**297.00**



Signature of the Senior Scientist and Head of the KVK

Forwarded **Verified** **Approved**

[DEE/Chairman] **[Nodal Officer (ATARI)]** **[Director (ATARI)]**

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