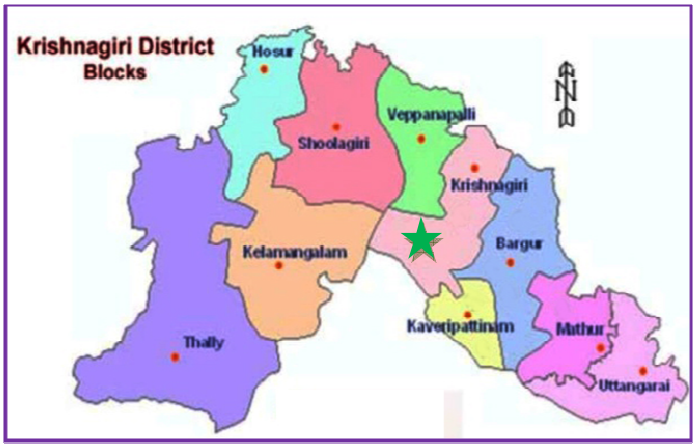
ICAR-Agricultural Technology Application Research Institute (ICAR-ATARI)

ACTION PLAN 2022-23

1. General information about the Krishi Vigyan Kendra

1.1. Name of the KVK	ICAR - Krishi Vigyan Kendra, Krishnagiri
Address	**ICAR - Krishi Vigyan Kendra,** Elumichangiri Village, Mallinayanapalli Post, **Krishnagiri District** – 635 120.
Phone	080982 80123, 04343 291944
Fax	-
e-mail	kvk.krishnagiri@icar.gov.in, drperumalkvk@gmail.com
1.2. Name of host organization	**Tamil Nadu Board of Rural Development**
Address	**Tamil Nadu Board of Rural Development,** No.24, 2nd floor, Crescent Park Street, T. Nagar, Chennai – 600 017
Phone	044 – 24360234
e-mail	tnbrd1978@gmail.com
1.3. Year of sanction	**1994**
1.4. Website of the KVK	krishnagirikvk.org
Date of last update	**22th March, 2022**

1.5.District map with location of the KVK



GPS reading (from Google Maps) of the Entrance of KVK

Latitude: 12.5777482, Longitude: 78.2648206

2. Details of staff as on date

S. No.	Sanctioned post	Name	Discipline	Date of joining	Present pay scale
1	Senior Scientist & Head	Dr. T. Sundarraj	Plant Protection	06.12.2004	Level 13 A
2	SMS 1	Mr. T.I. Ramesh Babu	Horticulture	06.12.2004	Level 10
3	SMS 2	Dr. S. Ramesh	Animal Science	20.01.2014	Level 10
4	SMS 3	Mr. K. Gunasekar	Soil Science	13.12.2004	Level 10
5	SMS 4	Mr. S. Senthilkumar	Agricultural Extension	15.10.2009	Level 10
6	SMS 5	Mrs. S. Poomathi	Home Science	01.04.1995	Level 10
7	SMS 6	Mr. S. Udhayan	Agronomy	03.03.2021	Level 10
8	Programme Assistant/T4-1	Mr. S. Mohamed Ismail	Agricultural Engineering	04.12.2004	Level 6
9	Programme Assistant/T4-2	Mr. N. Dinesh Kumar	Computer Programmer	01.04.2021	Level 6
10	Farm Manager/T4	Mr. S. Karthikeyan	-	16.07.2012	Level 6
11	Administrative Staff 1 (Assistant)	Mr. K. Mareeswaran	Commerce	01.08.2019	Level 6
12	Administrative Staff 2 (Stenographer Grade III)	Mr. D. Arulmani	Stenography	26.06.2019	Level 4
13	Driver/T1 – 1	Mr. G. Mothish	-	12.02.2020	Level 3
14	Driver/T1 – 2	Mr. A. Poonusamy	-	28.05.2014	Level 3
15	Supporting Staff 1	Mr. M. Subramani	-	01.08.1998	Level 1
16	Supporting Staff 2	Mr. G. Muniraj	-	04.07.2003	Level 1

3. Details of SAC meeting(s) conducted during 2021-22:

Date of SAC meeting Conducted: 10.02.2022

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	Motivate farmers to cultivate Organic Farming & Natural Farming.	**Mr. S. Ramesh,** The President, TNBRD, Chennai	Will be done during this year (2022 - 2023)
	Create awareness on Agro forestry schemes.		
	Promote Muccuna Seed production through PPP Mode.		
2	Revolving Fund should be increased.	**Dr. A. Bhaskaran**, Principal Scientist, ICAR, ATARI, Hyderabad	
	Increase the farmers database from all blocks of Krishnagiri District.		
	Promote NEWS ONAIR Mobile Application to Farmers.		
	Small voice clippings on technologies related to agriculture and allied sectors may be sent to AIR Dharmapuri.		
3	New Varieties introduced by TNAU may be popularized and awareness to be created.	**Dr. P. Parasuraman**, Professor and Head, Regional Research Station (TNAU), Paiyur	
	Create awareness and facilitate to promote the TNAU crop boosters.		
4	Popularize CO 5 fodder slips.	**Dr. M. Vijayakumar,** Programme Coordinator, ICAR - KVK, Dharmapuri	
	Popularize fastest growing agro-forestry seedling - *Melia dubia* (Mettupalayam Forest College).		
	Give more technical audio clips to AIR Dharmapuri.		
5	KVK may give training to Nursery men, FPOs about Brinjal Grafting Techniques.	**Dr. L. Jeeva Jothi**, Professor (Horticulture), Regional Research Station (TNAU), Paiyur	

6	Ranikhet disease awareness should be done.	**Dr. L. Rajendran**, Regional Joint Director of Animal Husbandry	Will be done during this year (2022 - 2023)
7	Create awareness on schemes of line departments to FPOs through convergence.	**Mr. S. Jeyaprakash**, DDM NABARD - Krishnagiri	
8	Promote Pulses in Paddy cultivating areas.	**Mr. M. Rajendran**, Joint Director of Agriculture	
9	KVK may organize training programme for custom hiring / value addition centers.	**Mr. M. Baskaran,** Executive Engineer, AED Krishnagiri	
	More mechanization trainings may be conducted.		
10	KVK may work together with TNRTP Farm School.	**Dr. S. Tamil Maran**, District Executive Officer, TNRTP Krishnagiri	
11	Give more training on IPDM in Mango.	**Mr. C. Ram Prasadh**, Deputy Director of Horticulture	
	KVK may disseminate latest technologies under poly house and green house cultivation for Floriculture farmers.		
12	KVK may organize buyer and seller meet for Native Chicken	**Dr. N. Muniappan,** Assistant Professor, VUTRC, Krishnagiri	
13	Banana sakthi for micro nutrient in banana cultivation (FLD/OFT).	**Dr. C. Karpagam**, Principal Scientist (Agrl. Extension), ICAR-NRCB, Trichy (Recommendations by Mail)	
	Popularization of Macro propagation technology by model unit at KVK.		
	One day training programme for the farmers about banana cultivation at ICAR NRCB.		
14	Specialized Training and Value-Addition may be given for Dairy and Poultry Farmers.	**Dr. S. T. Selvam**, Dean, College of Poultry Production Management, (TANUVAS), Mathigiri, Hosur	Will be done during this year (2022 - 2023)
	KVK may Promote Quail Rearing.		
	KVK may create awareness about the paid training of CPPM on "Hatchery Supervisor and Quail Farming"		

15	Awareness on FMD Vaccine and Ranikhat Vaccine may be done. Make awareness about Quail rearing and Pig farming. KVK may promote Mineral Mixture and Salt licks may sold under RF.	**Dr. R. Thangadurai**, Assistant Professor (VAS), ICAR – KVK, Dharmapuri	Will be done during this year (2022 - 2023)
16	Sericulture officials may be invited during KVK training programmes to promote the sericulture schemes.	**Mrs. E. Shanmugapriya**, Assistant Director of Sericulture	
17	Create awareness on Pradhan Mantri Formalisation of Micro Food Processing Enterprises Scheme (PMFME). KVK may scale up millet production in Krishnagiri District.	**Dr. R. Kailai Mannan,** Agriculture Officer (Agri Business)	
18	KVK may give the list of most wanted seedlings by the farmers for seedling production by forestry department through agro-forestry scheme.	**Mr. T. Munirathinam,** Forest Range Officer	
19	KVK may give technical message to AIR Dharmapuri. Successful farmers mobile number in Krishnagiri district may be provided to AIR Dharmapuri.	**Mr. P. Chinnasamy,** Programme Head, AIR Dharmapuri	
20	More number of trainings on organic farming to be conducted. Various technologies to be disseminated through SMS. Trainings to be conducted on waste management and composting methods.	**Mr. M. Manivasan,** Managing Director Vfarm Organic Foundation, Perambalur	
21	Awareness creation and trainings on medicinal plants cultivation may be done. Millet based foods are to be promoted.	**Mr. S. Ganesan,** Tamilnadu Social Rights Organization, Coimbatore	
22	KVK may facilitate marketing of Organic Products.	**Mr. N. Govindasamy,** Farmer Representative	
23	Create awareness among people usage of Bio-degradable materials instead of plastics.	**Mrs. L. Gayathiri,** Farmer Representative	

24	Training on Bee-keeping may be conducted.	**Mr. P. Munirathinam,** Farmer Representative	Will be done during this year (2022 - 2023)
	KVK may sell Honey Bee Box with affordable price for the benefit of Farming Community.		
25	KVK may create a platform for organic market.	**Mr. P. Narayana Reddy,** Farmer Representative	

Proposed date/month of SAC Meeting to be held in 2022-23: 3rd Week of November 2022

4.0 Capacity Building activities planned for KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2022-23

S. No	Name of the Head/ SMS/Staff	Area of Training	Institution proposed to attend	Duration	Dates (dd/mm/yy)
1	Dr. T. Sundarraj, Senior Scientist and Head	Latest Technologies in IPM	NBAIR, Bengaluru	10 Days	-
2	Mr. T. I. Ramesh Babu, SMS (Horticulture)	Poly House Cultivation in Horticultural Crops	IIHR, Bengaluru	5 Days	-
3	Mr. K. Gunasekar, SMS (Soil Science)	Climate Smart Agriculture for Improving Soil Health	TNAU-Coimbatore	5 Days	-
		Advances in Soil & Water Management for Sustainable Crop Production	UAS, Bengaluru	5 Days	-
4	Mrs. S. Poomathi, SMS (Home Science)	Coconut Value Addition	IIFPT, CFTRI,	5 Days	-
5	Mr. S. Senthil Kumar, SMS (Agrl. Extension)	Farmer Producer Organization for Sustenance Agriculture	MANAGE, Hyderabad	5 Days	-
		Market Led Extension for Agriculture and Allied Sector	MANAGE, Hyderabad	5 Days	-
6	Dr. S. Ramesh, SMS (Animal Science)	Climate Resilient Technologies in Animal Husbandry	TANUVAS	3 Days	-
		Recent Advance in Nutritional Approach for Improving Reproduction and Production in Livestock under Climate Change Scenario	ICAR - NAINP, Bengaluru	3 Days	-
		Technology Smart Intervention for Doubling Livestock Farmers Income	ICAR - NAINP, Bengaluru	3 Days	-

7	Mr. S. Udhayan, SMS (Agronomy)	Organic Farming & Organic Certification	TNAU, Coimbatore	5 Days	-
8	Mr. S. Mohamed Ismail, Prog. Asst (Agrl. Engineering)	Water Conservation Techniques	CIAE, Bhopal	5 Days	-
9	Mr. S. Karthikeyan, Farm Manager	Farm Management	TNAU, Coimbatore	5 Days	-
		Nursery Management	IIHR, Bengaluru	5 Days	-
10	Mr. N. Dinesh Kumar, Prog. Asst (Comp. Prog)	Information & Communication Technology in Modern Agriculture	MANAGE, Hyderabad	4 Days	-
11	Mr. K. Mareeswaran, Assistant	Cash & Accounts Training	MANAGE, Hyderabad	60 Days	-
12	Mr. D. Arul Mani, Stenographer Grade III	Documentation and Writing Skill	MANAGE, Hyderabad	5 Days	-
		Communication and Interpersonal Skills for Professional Excellence	MANAGE, Hyderabad	5 Days	-

5. Cross-learning across KVKs planned during 2022-23

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	UDHP - Mango, Amla, Custard Apple	Chittoor KVK	Fodder and Poultry management	Namakkal
2	Food Processing Lab	Dharmapuri, Salem, Erode	Integrated Farming System	Vellore
3	-	-	Watershed	Erode
4	-	-	Value addition	Pathanamthitta
5	-	-	Seed Processing Unit & Fruit Processing Unit	Baramathi

6. Operational areas proposed during 2022-23

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
Krishnagiri/Mathur	Redgram	LRG 41 variety is susceptible to dry root rot, wilt which leads to low yield	250 ha	Athipallam, Mathur	OFT
Krishnagiri /Kaveripattinam	Sorghum	Improper crop management & repeated cultivation of existing variety	800 ha	Kaveripattinam	OFT
Tirupathur/ Puthurnadu	Little Millet	Low yield due to repeated cultivation of existing variety	150 ha	Puthurnadu, Tirupathur	FLD
Krishnagiri/ Kaveripattinam	Paddy	Low yield due to improper crop management & Repeated cultivation of existing varieties	1000 ha	Arasampatti, Kaveripattinam	FLD
Krishnagiri/ Mathur	Castor	Low yield due to repeated cultivation of old traditional varieties.	50 ha	Valippatti, Mathur	FLD
Krishnagiri/ Krishnagiri	Finger Millet	Improper crop management & repeated cultivation of existing variety	250 ha	Krishnagiri	FLD
Krishnagiri/ Krishnagiri	Tomato	Improper pest management in tomato	300 ha	Narallapalli	OFT
Tirupathur/ Puthurnadu	Brinjal	Less yield due to the cultivation of spiny brinjal and the problem of spiny nature.	200 ha	Puthurnadu	FLD
Krishnagiri/ Krishnagiri	Chilli	Low yield due to pest and diseases in private hybrids	100 ha	Narallapalli	FLD
Tirupathur/ Puthurnadu	French Beans	Less yield due to cultivation non-descriptive type variety	60 ha	Puthurnadu	FLD
Krishnagiri/ Krishnagiri	Tomato	Improper Nutrient Management	300 ha	Narallapalli	OFT
Krishnagiri/ Kaveripattinam	Paddy	Improper Nutrient Management	1000 ha	Kaveripattinam	OFT
Krishnagiri/ Bargur	Tuberose	Improper Crop Management	50 ha	Bargur	OFT

Krishnagiri/ Mathur	Mango	Improper Nutrient Management	500 ha	Sivanpatti	FLD
Krishnagiri/ Krishnagiri	Banana	Improper Nutrient Management	100 ha	Narallapalli	FLD
Krishnagiri/ Kaveripattinam	Coconut	Improper Nutrient Management	300 ha	Arasampatti	FLD
Krishnagiri/ Mathur	Cassava	Improper Nutrient Management	150 ha	Sulakarai	FLD
Krishnagiri/ Kaveripattinam	Jasmine	Improper nutrient, pest and disease management	100 ha	Kaveripattinam	FLD
Krishnagiri/ Krishnagiri	Farm mechanization – Groundnut	Labour chartage & unaware of mechanical source	500 ha	Maharajakadai	FLD
Krishnagiri/ Krishnagiri	Farm mechanization - Multi crop seed drill	Labour chartage & unaware of mechanical source	300 ha	Maharajakadai	FLD
Krishnagiri/ Mathur	Farm mechanization - Paddy drum seeder & Cono weeder	Labour chartage & unaware of mechanical source	200 ha	Mathur	FLD
Krishnagiri/ Krishnagiri	Farm mechanization- Vegetable Planter	Labour chartage & unaware of mechanical source	200 ha	Maharajakadai	FLD
Krishnagiri/ Bargur	Mango	Yield loss due to pest and disease instance	500 ha	Bargur	OFT
Krishnagiri/ Mathur	Redgram	Yield loss due to pest and disease instance	150 ha	Mathur	OFT
Krishnagiri/ Kaveripattinam	Paddy	Low yield due to improper crop management & More pest & disease incidence	300 ha	Arasampatti	FLD
Krishnagiri/ Krishnagiri	Tomato	Yield loss due to pest and disease instance	`300 ha	Narallapalli	FLD
Krishnagiri/ Bargur	Groundnut – Wild boar	Lack of awareness on wild animal management	200 ha	Varatanapalli	FLD
Krishnagiri/ Krishnagiri	Goats / Sheep	Lack of awareness on mineral supplement	5000 nos	Belavarthi	OFT
Krishnagiri/ Krishnagiri	Dairy Cattle	Acaricidal resistance of ectoparasites in dairy animals	500 nos	Palaiyadeyanapalli	OFT

Krishnagiri/ Krishnagiri	Poultry	Farmers not aware of gut health enhancers and not using probiotics for scavenging desi chicken at field level	5000 nos	Palaiyadeyanapalli	FLD
Tirupathur/ Puthurnadu	Poultry	Lack of awareness on newly released poultry breeds.	6000 nos	Puthurnadu, Tirupathur	FLD
Krishnagiri/ Kaveripattinam	Fodder	Unaware of high yielding fodder varieties	250 ha	Arasampatti	FLD
Krishnagiri/ Krishnagiri	Poultry	Lack of awareness on newly released quail breeds.	500 nos	Periyakottapalli	FLD
Krishnagiri/ Bargur	Value addition – Millets papped	Lack of awareness on value addition, Low income	-	Bargur	OFT
Krishnagiri/ Krishnagiri	Value addition – Guava	Lack of awareness on value addition, Low income	-	Krishnagiri	OFT
Krishnagiri/ Bargur	Nutri garden	Lack of knowledge on balanced nutrition	-	Bargur, Guttur	FLD
Krishnagiri/ Mathur	Value addition - Palmyrah	Lack of awareness on value addition	-	Mathur	FLD
Krishnagiri/ Kaveripattinam	Mushroom	Lack of value addition	-	Kaveripattinam	FLD
Krishnagiri/ Kaveripattinam	Extension – TNAU Mobile Apps (Coconut)	Lack of awareness on TNAU Mobile Apps for dissemination of information	-	Arasampatti	FLD & FFS
Krishnagiri/ Krishnagiri	Extension - News on AIR	Lack of awareness on News on AIR Mobile Apps for dissemination of information	-	Krishnagiri	FLD
Krishnagiri/ Mathur	Oilseed – Groundnut	Improper crop management	500 ha	Krishnagiri, Mathur	CFLD - NFSM (Oil Seeds)
Krishnagiri/ Mathur	Pulses – Redgram	Improper crop management	1,000 ha	Krishnagiri, Mathur	CFLD - NFSM (Pulses)

6.2.Details of adopted villages

District/ Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identified in each crop/enterprise	Proposed type of interventions
Krishnagiri, Krishnagiri	Krishnagiri, Palayadeyanapalli, Nagarajapuram	Groundnut, Tomato, Farm Mechanization, Ragi, Chilli, Banana, Paddy, Guava	Improper Crop Management, Improper Nutrient Management, lack of awareness of farm mechanization, Low yield and poor soil health due to indiscriminate use of chemical fertilizers, Yield loss due to incidence of pest and disease, Lack of awareness in Value Addition, Lack of awareness on social media for dissemination of information	OFT/FLD/Training/ Field day/ Method demonstrations
Krishnagiri Kaveripatinam	Kaveripatinam, Arasampatti	Paddy, Sorghum, Coconut, Jasmine, Mango, Mushroom, Fodder	Low yield due to repeated cultivation of existing variety, Lack of awareness on social media for dissemination of information, Improper Nutrient Management, Improper crop management, Yield loss due to incidence of pest and disease, Lack of awareness in Value Addition.	OFT/FLD/FFS/ Training/ Field day/Method demonstrations
Krishnagiri, Bargur	Varatanapalli, Bargur	Groundnut - Wild boar management, Value Addition in Millet, Nutrigarden, Tuberose	Wild boar infestation, Lack of awareness in Value Addition, Lack of knowledge on balanced nutrition	OFT/FLD/Training/ Field day/ Method demonstrations
Krishnagiri Mathur	Vallipatti, Sivanpatti, Sulakkarai, Mathur,Athippallam	Mango, Redgram, Castor, Cassava, Palmyra	Improper Crop Management, Improper Nutrient Management, Unavailability of skilled labour in season & unaware of mechanical source, Yield loss due to incidence of pest and disease, Lack of awareness in Value Addition	OFT/FLD/CFLD/ Training/ Field day
Tirupathur, Tirupathur	Puthurnadu	Samai, Brinjal, French Bean	Improper crop management, Yield loss due to incidence of pest and disease	OFT /FLD/ Training/ Field day

6.3 Details of DFI villages

District/ Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identified in each crop/enterprise	Proposed type of interventions
Krishnagiri, Krishnagiri	Maharajakadai, Periyakottapalli, Narallapalli	Groundnut, Tomato, Farm Mechanization, Ragi, Chilli, Banana, Paddy, Guava	Improper Crop Management, Improper Nutrient Management, lack of awareness of farm mechanization, Low yield and poor soil health due to indiscriminate use of chemical fertilizers, Yield loss due to incidence of pest and disease, Lack of awareness in Value Addition, Lack of awareness on social media for dissemination of information	OFT/FLD/Training/ Field day/ Method demonstrations
Krishnagiri, Bargur	Guttur, Bellavarthi	Groundnut - Wild boar management, Value Addition in Millet, Nutrigarden	Wild boar infestation, Lack of awareness in Value Addition, Lack of knowledge on balanced nutrition	OFT/FLD/Training/ Field day/ Method demonstrations

7. Summary (targets) of mandated activities planned for the year 2022-23

S. No.	Activities	Target
1. On- farm trials		
	a. No of OFTs	12
	b. No of Technologies (Total new technologies except FP)	24
	c. No. of locations (No. of Villages)	12
	d. No. of Beneficiaries (No. of Farmers fields)	70
	e. Area (Total area in ha)	8
2. Frontline Demonstrations		
	a. No. of FLDs	28
	b. No. of Locations (No of villages)	28
	c. No. of Beneficiaries (No of Farmers fields)	334
	d. Area (Total Area planned in ha)	62.3
3. Trainings for Farmers and Farm Women		
	a. No. of programmes	107
	b. No. of participants	2670
4. Trainings for Rural Youth		
	a. No. of programmes	18
	b. No. of participants	450
5. Trainings of Extension Personnel		
	a. No. of programmes	15
	b. No. of participants	315
6. Extension Activities		
	No. of activities (Total number of activities listed in Table 13)	900
	No. of participants	6460
7. Production of seed (in quintals)		
	Castor	4 q
	Fodder sorghum COFS 31, 29	4 q
	Hedge Lucerne CO 2	2 q
	Red gram	2 q
	Horse gram	20 q
	Green Manure	3 q
	Mucuna	7 q
8. Production of planting materials (in Nos.)		
	Banana sucker	3,000 Nos
	Fodder slips	20,000 Nos
	Mango seedlings	600 Nos
	Tomato seedlings	10,000 Nos
	Guava seedlings	300 Nos
	Lemon seedlings	500 Nos
	Manila tamarind	1000 Nos
	Coconut seedlings	700 Nos
	Melia dubia seedlings	700 Nos
	Moringa seedlings	1,500 Nos
	Tree seedlings	2,500 Nos
	Papaya seedlings	300 Nos
	Tamarind seedlings	500 Nos
	Glyricidia seedlings	1000 Nos
	Amla seedlings	150 Nos
	Jamun seedlings	150 Nos

	Flowers crops seedlings	250 Nos
	Ornamental seedlings	1000 Nos
	Medicinal plant seedlings	200 Nos
9. Production of live-stock strains and finger lings (Category wise Nos.)		
	Goat + Sheep	7 Nos
	Desi chicken rearing	1,000 Nos
10. Production of bio inputs (quantity in Kg)		
	Mango, Banana and Vegetable Special	1500 Kg
	Vermicompost	3000 Kg
11. Production of other inputs (input in Kg) & (Nos)		
	Ready to eat products	200 Kg
	Pheromone traps (fruit-fly)	2,000 Nos
12. Kisan mobile advisories		
	No. of messages	25
	No. of technologies	25
	No. of farmers	1,00,000
Other mobile advisories		
	No. of messages	50
	No. of technologies	50
	No. of farmers	800
13. Soil testing		
	No. of soil sample testing using Mobile Soil Testing Kit	300
	No. of soil sample testing in conventional laboratory	-
Water sample Testing (samples in No.)		-
Soil Health Cards		
	No. of Cards using Mobile Soil Testing Kit data	300
	No. of Cards using Laboratory data	-

8. Technology Assessments proposed during 2022-23

8.1. Summary of OFTs

S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 / TO-2 / FP	Source of Technology	Status	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village	No. of trials targeted under SCSP
1	Redgram	Assessment of Redgram varieties for higher productivity	**TO1:** Cultivation of Redgram variety – CO 8	TNAU, 2017	New	5	5,750	SMS (Agronomy and Agrl. Extension)	**-**	**5**
			TO2: Cultivation of Redgram variety – Telangana kandi-1 (WRGE – 93)	SAU (Warangal), 2019						
			FP: Cultivation of Redgram variety – (LRG 41)	**-**						
2	Sorghum	Assessment of dual purpose Sorghum varieties for higher productivity	**TO1:** Cultivation of dual purpose sorghum variety CO 32	TNAU 2021	New	5	7,250	SMS (Agronomy and Agrl. Extension)	**-**	**-**
			TO2: Cultivation of dual purpose sorghum variety CSV 31	IIMR – Palem 2014						
			FP: Cultivation of Chen cholam and Thalaivirichan Cholam	**-**						
3	Tomato	Assessment of high yielding hybrids resistant to leaf curl virus, leaf blight and wilt in Tomato	**TO1:** Cultivation of COTH4	TNAU 2020	New	5	23,500	SS and Head, SMS (Horticulture)	**5**	**-**
			TO2: Cultivation of Arka Abhed	IIHR 2018						
			FP: Cultivation of Sahoo (Private hybrid)	**-**						

S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 / TO-2 / FP	Source of Technology	Status	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village	No. of trials targeted under SCSP
4	Tomato	Assessment on Efficiency of Bio-consortia (CSR Grow sure) in enhancing the yield in Tomato	**TO1:** CSR Grow sure	ICAR-CSSRI, Lucknow 2021	New	5	7,625	SMS (Soil Science, Horticulture and Agrl. Extension)	**5**	**-**
			TO2: Arka Microbial Consortia	IIHR 2015						
			FP: No microbial supplementation							
5	Paddy	Assessment on Performance of different microbial consortia in Paddy	**TO1:** PUSA SAMPOORN and Biofort IARI	IARI – ICAR – Biofertilizer – Technical bulletin July, 2021	New	5	10,000	SMS (Soil Science, Agronomy and Agrl. Extension)	**-**	**5**
			TO2: TNAU Liquid biofertilizers	Technical bulletin No. AINP-SBB/TNAU/2020/02						
			FP: No biofertilizers supplementation	-						

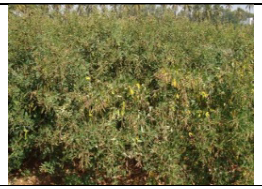
S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 / TO-2 / FP	Source of Technology	Status	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village	No. of trials targeted under SCSP
6	Tuberose	Assessment of ICM Practices in Tuberose	**TO1:** Spraying of growth regulators and micronutrients as recommended by TNAU	TNAU 2020	New	5	16,800	SMS (Horticulture, Soil Science)	-	-
			TO2: Spraying of growth regulators and micronutrients as recommended by IIHR	IIHR 2019						
			FP: Indiscriminate use of Fertilizers and growth regulators	-						
7	Mango	Assessment of technology modules against mango fruit borer *Citripestis eutraphera* (Meyrick) (Pyralidae: Lepidopteara)	**TO1:** ➢ First spray of an insecticide, spinetoram (1.25 ml) or deltamethrin (1 mL L-1), followed by ➢ Second spray with IIHR Neem Soap @ 10 g L-1 or Azadirachtin 1% (3 mL L-1) after two weeks. ➢ Spraying should commence when fruits are lemon size.	IIHR, 2021	New	5	12,800	SS and Head, SMS (Horticulture)	-	-
			TO2: ➢ Removal of dead wood from the trees ➢ Removal and destruction of damaged and MFB infested fruits especially at pea and marble stages of the fruit ➢ In Second fort night of January spray of Neem oil	DR. YSR, Horticultural University, AP, 2010						

S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 / TO-2 / FP	Source of Technology	Status	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village	No. of trials targeted under SCSP
			3ml + chloripyriphos 1 ml per litre of water at marble stage of the fruit ➢ Spraying of NSKE 5 % at 10 days interval during the months of April and May up to 15 days before harvest applied near to the root zone of the standing crop)							
			FP: Spraying of combination of Insecticides during flowering to harvest	-						
8	Redgram	Assessment of Technology modules against Red gram sterility Mosaic virus	**TO1:** Fenpyroximate 5% E. C. @1 ml/litre at 25 and 40 days after sowing	UAS, Bangalore 2021	New	5	7,250	SS and Head, SMS (Agronomy)	-	**5**
			TO2: ➢ Rogue out the virus infected plants in the early stages of growth ➢ Spray Fenazaquin@1ml/L soon after appearance of the disease and if necessary repeat after 15 days	TNAU 2020						
			FP: Application of combination of insecticides	-						

S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 / TO-2 / FP	Source of Technology	Status	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village	No. of trials targeted under SCSP
9	Goats / Sheep	Assessment of AFDT salt in mineralized salt lick to improve growth performance in small ruminants	**TO1:** Aerated Film Dry Technologies (AFDT) salt in Mineralized salt lick	TANUVAS 2020	New	5	21,000	SMS (Animal Science), Senior Scientist and Head, SMS (Agrl. Extension)	**5**	**-**
			TO2: NIANP Small ruminants mineral mixture	ICAR-NIANP 2018						
			FP: No mineral mixture feeding. Some farmers feed the mineral mixture available for large ruminants in little quantity	**-**						
10	Dairy Cattle	Assessment of Methicon spray to mitigate the acaricidal resistance of ectoparasites in dairy animals	**TO1:** Methicon Spray	TANUVAS 2022	New	15	6,750	SMS (Animal Science, Agrl. Extension)	**-**	**15**
			TO2: NIF Polyherbal Formulation	NIANP 2018						
			FP: Use of Deltamethrin (2%) / Flumethirin (1%)	**-**						
11	Enterprise	Assessment of different dehydration techniques of millet pappad	**TO1:** Multigrain millet flour papad using cabinet drier	IIFPT 2019	New	5	5,000	SMS (Home Science, Agronomy, Extension)	**5**	**-**
			TO2: The ragi flour is mixed with urad dhal flour, spices and oil, and other ingredients and the dough is made into a batter and dried using solar drier	TNAU 2016						

S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 / TO-2 / FP	Source of Technology	Status	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village	No. of trials targeted under SCSP
			FP: Traditional sun drying	-						
12	Enterprise	Assessment of guava preserve with different preservation techniques	**TO1:** Preservation of preserve with addition of jaggery	CSC &RI TNAU 2014	New	5	6000	SMS (Home Science, Agronomy, Agrl. Extension)	-	-
			TO2: Preservation of Guava Preserve with Addition of Sugar	UAS Bangalore 2014						
			FP: Raw sales, poor shelf life	-						

8.2. Details of OFTs 2022-23:

OFT No.	**01**
Status	New proposal
Subject	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Pulses
Crop/ enterprise	Redgram
Farming situation	Rainfed, sandy loam
Prioritized problem (short)	Redgram is cultivated in area about 10750 ha in Krishnagiri district. Most of the farmers cultivating LRG 41 which is susceptible to wilt and sterility mosaic diseases, results in low yield. Newly released redgram varieties (Telangana kandi-1 and CO 8) are yielding 25 % higher than LRG 41.
Title of the OFT	**Assessment of Redgram varieties for higher productivity.**
Technology options	
TO-1	**Cultivation of Redgram variety – CO 8**
Source and year	TNAU, 2017
Description (short)	Maturity (170-180 days). Resistant to sterility mosaic disease and tolerant to root rot, moderately resistant to pod fly and pod borer.
Potential yield/income	Yield -1600 Kg/ha
Critical inputs & quantity and cost	CO 8 Seeds 2 Kgs (Rs. 400/-), Field Board – 1 No. (Rs. 200/-) and Soil Sample – 1 No. (Rs. 50/-)
Source of Inputs	TNAU
Photos	
TO-2	**Cultivation of Redgram variety - Telangana kandi-1 (WRGE-93)**
Source and year	SAU (Warangal), 2019
Description (short)	Suitable for rainfed conditions, maturity 150-165 days, moderately resistant to *Fusarium* wilt and moderately tolerant to *Helicoverpa armigera* attack.
Potential yield	Yield – 1700 Kg/ha
Critical Inputs	Telangana kandi-1 (WRGE-93) Seeds 2 Kgs (Rs.500/-)
Source of Inputs	SAU (Warangal)

Photos	
Farmer's Practice	**LRG 41**
Farmer's yield	Yield - 900 Kgs/ha
Season	Kharif 2022
Cost per replication (Rs.)	Rs. 1,150
No. of replications	5
Total cost for the OFT	Rs. 5,750
Parameters to be studied	Growth parameters, Yield and BCR
Parameters to be reported	Growth parameters, Yield and BCR
Source of funding	SC SP
Team members	SMS (Agronomy and Agrl. Extension)

OFT No.:	**02**
Status	New
Subject	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Major millets
Crop/ enterprise	Sorghum
Farming situation	Rainfed, sandy loam
Prioritized problem (short)	Sorghum is cultivated in area about 4600 ha in Krishnagiri district. Major variety is Sudan grass, Chencholam and Thalaivirichan Cholam were cultivated by farmers. These varieties are susceptible to downy mildew, ergot and rust diseases, which results in poor yield. Newly released Sorghum varieties are yielding 40 % higher than these old varieties.
Title of the OFT	**Assessment of dual purpose Sorghum varieties for higher productivity**
Technology options	
TO-1	**Cultivation of dual purpose sorghum variety CO 32**
Source and year	TNAU, 2021

Description (short)	Duration – 110 days. Moderately resistant to shoot fly and stem borer attack. Moderately resistant to downy mildew and grain mould. Grains are yellow white in color, which has high protein content (11.31-14.66%) and fiber content (4.95 -5.8%), Stover quality is best with 6.15 % protein
Potential yield/income	Grain yield of 2911 kg/ha Dry fodder yield of 11710 kg/ha
Critical Inputs	Sorghum variety CO 32 – Seeds 2 kgs (Rs. 600/-)
Source of Inputs	TNAU
Photos	 
TO-2	**Cultivation of dual purpose sorghum variety CSV 31**
Source and year	IIMR – Palem, 2014
Description (short)	Duration – 110 days. Plant reaches upto210-250 cm tall having juicy stem, white color mid-rib, waxy bloom, semi-compact symmetric panicle, pearly white seed and grey yellow endosperm, tolerant to grain mold and resistant to anthracnose and leaf blight
Potential yield/income	Grain yield of 3300 kg/ha Dry fodder yield of 14400 kg/ha
Critical inputs & quantity and cost	CSV 31 Seeds 2 Kgs (Rs. 600/-), Field Board – 1 No. (Rs. 200/-) and Soil Sample – 1 No. (Rs. 50/-)
Source of Inputs	IIMR
Photos	
Farmer's Practice	**Chencholam and Thalaivirichan cholam**
Farmer's yield	Grain yield of 1100 kg/ha Dry fodder yield of 74000 kg/ha
Season	Kharif 2022
Cost per replication (Rs.)	Rs. 1450
No. of replications	5
Total cost for the OFT	Rs. 7250

Parameters to be studied	Growth parameters, Yield and BCR
Parameters to be reported	Growth parameters, Yield and BCR
Source of funding	KVK Main
Team members	SMS (Agronomy and Agrl. Extension)

OFT No.:	**03**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Theme	Varietal evaluation
Category (if applicable)	Vegetables
Crop/ enterprise	Tomato
Farming situation	Irrigated, Red sandy loam
Prioritized problem (short)	Tomato is cultivated in about 2000 ha in the district under irrigated condition. Mostly private hybrids are cultivated. These hybrids are susceptible to water stress, thrips, helicoverpa, powdery mildew and viral diseases; low yield (35.0 t/ha). Newly released Tomato Hybrids are high yielding and tolerant to major pest and diseases.
Title of the OFT	**Assessment of high yielding hybrids resistant to leaf curl virus, leaf blight and wilt in Tomato**
Technology options	
TO-1	**Cultivation of COTH4**
Source and year	TNAU 2020
Description (short)	❖ Tomato Hybrid CO 4 is high yielding, long shelf life and high acidity in nature. ❖ The hybrid has long harvesting period with 20-22 harvests in 150 days with a yield of 2.94 kg per plant.
Potential yield/income	Yield: 92.3 t/ha
Critical Inputs	Seedlings, Arka Vegetable Special, Pheromone trap for pinworm, Field Board
Source of Inputs	TNAU, KVK
Photos	
TO-2	**Cultivation of Arka Abhed**
Source and year	IIHR, 2018

Description (short)	❖ High yielding F1 hybrid with multiple disease resistance (ToLCV, bacterial wilt, early blight and late blight (Ph2 + Ph3) Plants are semi-determinate with dark green foliage, Fruits are firm, oblate round & medium large (90-100g). ❖ Suitable for summer, kharif & rabi cultivation. Bred for fresh market & yields 70-75 t/ha in 140-150 days.
Potential yield/income	Yield: 70-75 t/ha
Critical inputs & quantity and cost	Seedlings (6000 Nos - Rs. 1,800/-), Arka Vegetable Special (5 kg - Rs. 1,100/-), Pheromone trap for pinworm (10 Nos - Rs. 1,600/-), Field Board (1 No - Rs. 200/-)
Source of Inputs	IIHR, KVK
Photos	
Farmer's Practice	**Sahoo (Private hybrid)**
Farmer's yield	65 t/ha
Season	Rabi 2022
Cost per replication (Rs.)	Rs. 4700
No. of replications	5
Total cost for the OFT	Rs. 23500
Parameters to be studied	No. of fruits/ plant, Leaf curl virus Percent disease index, Marketable fruit yield, BC ratio
Parameters to be reported	No. of fruits/ plant, Leaf curl virus Percent disease index, Marketable fruit yield, BC ratio
Source of funding	KVK Main
Team members	SMS (Horticulture), SMS (Soil Science)

OFT No.	**04**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Theme	Crop Production and Management
Category (if applicable)	Vegetables
Crop/ enterprise	Tomato
Farming situation	Irrigated, Soil type - Red sandy loam
Prioritized problem (short)	Injudicious usage of chemical fertilizers with improper nutrient management leads to poor soil health which may result in yield loss up to 20 – 25 %.
Title of the OFT	**Assessment on Efficiency of Bio-consortia (CSR Grow sure) in enhancing the yield in Tomato**
Technology options	
TO-1	**CSR Grow sure**
Source and year	ICAR-CSSRI, Lucknow, 2021
Description (short)	Soil drenching of CSR Grow sure @ 1 % liquid formulation (1 L in 100 L of water + 200 g of jaggery, incubated for 24 – 48 hrs and applied at 10, 30 & 50 days after planting).
Potential yield/income	Yield increase up to 15 – 20 %
Critical Inputs	CSR Grow Sure - 3 lit, Rs.225/lit.
Source of Inputs	ICAR-CSSRI, Lucknow, 2021
Photos	
TO-2	**Arka Microbial Consortia**
Source and year	IIHR, 2015
Description (short)	Soil drenching of Arka Microbial Consortia @ 20 g/ lit - Applied near to the root zone on 10 DAT + 12.5 kg/ha mixed with 500 kg of FYM and applied near the root zone of standing crop.
Potential yield/income	Yield increase upto 15 – 20 %
Critical inputs& quantity and cost	Arka Microbial Consortia - 3 kg, Rs. 200/kg, Soil testing – Rs. 50/- & Field board (1 no.) – Rs.200/-
Source of Inputs	IIHR

Photos	
Farmer's Practice	**No microbial supplementation**
Farmer's yield	55 t/ha
Season	Kharif, 2022
Cost per replication (Rs.)	Rs.1525
No. of replications	5
Total cost for the OFT	Rs. 7625
Parameters to be studied	Visual symptoms of nutrient deficiencies, Pest and disease incidences, Growth parameters, Gross cost, Gross income, Net income, Yield and BCR
Parameters to be reported	Number of fruits/plant, Avg. weight/fruit, Yield (q/ha) and BCR
Source of funding	KVK Main
Team members	SMS (Soil Science), SMS (Horticulture) and SMS (Agrl. Extension)

OFT No.	**05**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Theme	Crop Production and Management
Category (if applicable)	Cereals
Crop/ enterprise	Paddy
Farming situation	Irrigated, Soil type - Sandy loam
Prioritized problem (short)	Injudicious usage of chemical fertilizers with improper nutrient management leads to poor soil health which may result in yield loss up to 20 – 25 %.
Title of the OFT	**Assessment on Performance of different microbial consortia in Paddy**
Technology options	
TO-1	**PUSA SAMPOORN and Biofort IARI**
Source and year	IARI – ICAR – Biofertilizers – Technical bulletin July, 2021
Description (short)	RDF + Application of PUSA SAMPOORN (*Azotobacter chroococcum, Pseudomonas psychrophila*

	and Bacillus decolorationis) Seed treatment (250 mL in 2.5litre /ha of seeds); root dip (1250ml /6.25 L with water /ha) and Biofort IARI (*Providencia sp. + B. diminuta + Ochrobactrum anthropi)* - Seed coating/soil application /seedling dip – 1,250 g/ha
Potential yield/income	Yield increase up to 15 – 20 %
Critical Inputs	PUSA SAMPOORN (3 lit), Rs.600/-Biofort IARI (2.5 kg), Rs. 600/-
Source of Inputs	IARI – ICAR – Biofertilizer – Technical bulletin July, 2021
Photos	
TO-2	**TNAU Liquid biofertilizers**
Source and year	Technical bulletin No. AINP-SBB/TNAU/2020/02
Description (short)	RDF + TNAU Liquid biofertilizers (N–*Azospirillum lipoferum* (Az204), P – *Bacillus megaterium* (Pb1), K- *Bacillus mucilaginosus* (KRB9), Zn - *Pseudomonas chlororaphis* (ZSP15), Drought mitigation – *Methylobacterium aminovorans* (Tm13) Seed treatment-125 ml/ha, Seedling dip-125 ml/ha, Soil application - 500 ml/ha, Foliar spray - 500 ml/ha
Potential yield/income	Yield increase up to 15 – 20 %
Critical inputs & quantity and cost	TNAU Liquid biofertilizers - 3 lit, Rs. 550/-Soil testing – Rs. 50/- & Field board (1 no.) – Rs.200/-
Source of Inputs	IIHR
Photos	
Farmer's Practice	**No biofertilizers supplementation**
Farmer's yield	55 q/ha
Season	Kharif, 2022
Cost per replication (Rs.)	Rs.2000
No. of replications	5
Total cost for the OFT	Rs. 10000
Parameters to be studied	Visual symptoms of nutrient deficiencies, Pest and disease incidences, Growth parameters, Gross cost, Gross

	income, Net income, Yield and BCR
Parameters to be reported	Yield (q/ha) and BCR
Source of funding	SC SP
Team members	SMS (Soil Science), SMS (Agronomy) and SMS (Agrl Extension)

OFT No.:	**06**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Horticulture
Theme	Integrated Crop Management
Category (if applicable)	Flower crops
Crop/ enterprise	Tuberose
Farming situation	Irrigated
Prioritized problem (short)	In tuberose cultivation pest and diseases like mealy bug, nematode and rhizome rots are seen and in general mere in low yield due to improper management. There is no awareness on the growth on the use of growth regulators and micro nutrients
Title of the OFT	**Assessment of ICM Practices in Tuberose**
Technology options	
TO-1	**Spraying of growth regulators and micronutrients as recommended by TNAU**
Source and year	TNAU 2020
Description (short)	➢ Dipping of Corm in 5000 ppm CCC (5 g/lit) before planting to increase the yield ➢ Micronutrient: Foliar spray of ZnSO4 0.5% +FeSo4 0.2% + Boric Acid 0.1% ➢ Growth regulators: Foliar application of GA3 at 50 to 100 ppm thrice at 40,55 & 60 DAP
Potential yield/income	14 t/ha
Critical Inputs	Growth promoters, Micronutrient, Bio-control agent, Field Board
Source of Inputs	RRS, Paiyur, KVK
Photos	
TO-2	**Spraying of growth regulators and micronutrients as recommended by IIHR**

Source and year	IIHR, 2019
Description	➢ Neem cake 200 kg + 1 kg of *Trichoderma harzianum* ➢ Bulb treatment with carbendazim ➢ Fertilizer application FYM 25 ton, 130 kg Urea, 85 kg DAP, 100 kg MOP per ha ➢ Micronutrient: Foliar spray of ZnSO4 0.5% +FeSo4 0.2% + Boric Acid 0.1%
Potential yield/income	13.5 t/ha.
Critical inputs & quantity and cost	Growth promoters 80 g - Rs. 2110, Micronutrient 2 kg - Rs. 300, Bio-control agent 5 kg - Rs. 750, Field Board (1 No - Rs. 200)
Source of Inputs	RRS, Paiyur, KVK
Photos	
Farmer's Practice	**Indiscriminate use of Fertilizers and growth regulators**
Farmer's yield	12 t/ha.
Season	Kharif 2022-23
Cost per replication (Rs.)	Rs. 3360
No. of replications	5
Total cost for the OFT	Rs. 16800 (including field board)
Parameters to be studied	No. of Harvests, Flower spikes /plant, Flower yield /plant, Shelf life, Yield & BCR
Parameters to be reported	No. of Harvests, Flower spikes /plant, Flower yield /plant, Shelf life, Yield & BCR
Source of funding	KVK Main
Team members	SMS (Horticulture), SMS (Soil Science)

OFT No.:	**07**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Plant protection
Theme	Integrated Pest management

Category (if applicable)	Fruit crops
Crop/ enterprise	Mango
Farming situation	Rainfed, red sandy loam
Prioritized problem (short)	*Citripestis eutraphera* has been recorded damaging mango fruits in Krishnagiri district. The larvae have been found boring and feeding on immature mango fruits causing extensive fruit damage. The infested fruits have bored holes and the fruit often blackened around the bored area. Several infested fruits also exhibited split. The young larvae were found scraping the fruit skin causing characteristic scab like patch and the later stage larvae found boring in to the fruit. Even the adjacent fruits also found bored indicating single larva can damage several fruits.
Title of the OFT	**Assessment of technology modules against mango fruit borer *Citripestis eutraphera* (Meyrick) (Pyralidae: Lepidopteara)**
Technology options	
TO-1	
Source and year	IIHR, 2021
Description (short)	➢ First spray of an insecticide, spinetoram (1.25 ml) or deltamethrin (1 mL L-1), followed by ➢ Second spray with IIHR Neem Soap @ 10 g L-1 or Azadirachtin 1% (3 mL L-1) after two weeks. ➢ Spraying should commence when fruits are lemon size.
Potential yield/income	10 to 15 percent yield increase
Critical Inputs	Spinetoram- 100ml/trial-Rs. 1400, IIHR Neem soap- 1 kg/trial - Rs. 260, Field board –Rs.200
Source of Inputs	Agri clinic, IIHR,
Photos	
TO-2	
Source and year	DR. YSR, Horticultural University, AP, 2010
Description (short)	➢ Removal of dead wood from the trees ➢ Removal and destruction of damaged and MFB infested fruits especially at pea and marble stages of the fruit ➢ In Second fort night of January spray of Neem oil 3ml + chloripyriphos 1 ml per litre of water at marble stage of the fruit ➢ Spraying of NSKE 5 % at 10 days interval during the months of April and May up to 15 days before harvest

Potential yield/income	10 to 15 percent yield increase
Critical inputs& quantity and cost	Neem oil - Rs 700/lit
Source of Inputs	Agri clinic
Photos	
Farmer's Practice	**Spraying of combination of Insecticides during flowering to harvest**
Farmer's yield	5 percent yield increase
Season	Rabi
Cost per replication (Rs.)	Rs.2560
No. of replications	5
Total cost for the OFT	Rs.12800
Parameters to be studied	1. Fruit borer incidences 2. Yield & BCR
Parameters to be reported	1. Fruit borer incidences 2. Yield & BCR
Source of funding	KVK Main
Team members	SS and Head, SMS(Horticulture)

OFT No.	**08**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Plant protection
Theme	IPM
Category (if applicable)	Pulses
Crop/ enterprise	Redgram
Farming situation	Rainfed,
Prioritized problem (short)	Pigeonpea sterility mosaic virus disease is considered to be one of the major constraints for low productivity of pigeonpea in krishnagiri district and cause economic yield loss upto 100 percentage.
Title of the OFT	**Assessment of Technology modules against Red gram sterility Mosaic virus**
Technology options	
TO-1	

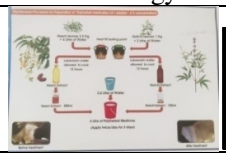
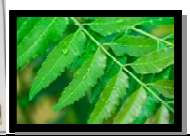
Source and year	UAS, Bangalore 2021
Description (short)	Fenpyroximate 5% E. C. @1 ml/litre at 25 and 40 days after sowing
Potential yield/income	20 to 25 percent increase yield
Critical Inputs	Fenpyroximate 5% EC, 500 ml/ trial, Rs. 500/trial
Source of Inputs	Agri clinic
Photos	
TO-2	
Source and year	**TNAU, 2020**
Description (short)	➢ Rogue out the virus infected plants in the early stages of growth ➢ Spray Fenazaquin@1ml/L soon after appearance of the disease and if necessary repeat after 15 days
Potential yield/income	-
Critical inputs & quantity and cost	Fenazaquin 10% EC, % 500 ml/trial, Rs.750/trial, Field board -Rs.200
Source of Inputs	Agri clinic
Farmer's Practice	Application of combination of insecticides
Farmer's yield	5 percent
Season	Kharif
Cost per replication (Rs.)	Rs. 1450
No. of replications	5
Total cost for the OFT	Rs. 7250
Parameters to be studied	1. Disease incidences 2. Yield & BCR
Parameters to be reported	1. Disease incidences 2. Yield & BCR
Source of funding	SC SP
Team members	SS and Head, SMS(Agronomy)

OFT No.	**09**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Animal Science
Theme	Livestock Nutrition Management
Category (if applicable)	Small ruminants

Crop/ enterprise	Goats / Sheep
Farming situation	Semi intensive farming system
Prioritized problem (short)	Small ruminants are not supplemented with Mineralised salt lick / Concentrate feed and mineral deficiency is common , causing decreased growth rate. Also farmers unaware of Mineral deficiency in sheep/goats and also on Mineral lick supplement for small ruminants. Commercial mineral mixtures comprising the essential minerals are available only for large ruminants like cattle and buffalo. Small ruminants have specific mineral requirements which are quite different from the large ruminants. Hence the new technology of Mineral supplement / Mineralised lick has to be assessed on the growth performance of small ruminants
Title of the OFT	**Assessment of AFDT salt in mineralized salt lick to improve growth performance in small ruminants**
Technology options	
TO-1	**Aerated Film Dry Technologies (AFDT) salt in Mineralized salt lick**
Source and year	TANUVAS, 2020
Description (short)	AFDT salt in Mineralised Salt Milk - Complete source of essential minerals for livestock incorporated with spirullina. Supplement 1 lick/block per sheep/goat for 2 months
Potential yield/income	-
Critical Inputs	AFDT Mineralized Salt Lick , 20 nos , Rs. 2400/-
Source of Inputs	IAN, TANUVAS , Chennai
Photos	 
TO-2	**NIANP Small ruminants mineral mixture**
Source and year	ICAR-NIANP 2018
Description (short)	Formulated based on the specific mineral requirement of sheep and goat to meet 100% requirement of most deficient trace minerals and partially meet the requirement of other minerals, with a consideration that remaining is to be met through feed and fodder. The products are very useful in improving the productive efficiency and general health in small ruminants. The technology is cost-effective, sustainable, adoptable and environment-friendly.
Potential yield/income	-
Critical inputs& quantity and cost	NIANP Small ruminants mineral mixture & Field board, 20 Kgs , Rs.1800
Source of Inputs	ICAR- NIANP, Bengaluru

Photos	
Farmer's Practice	**No mineral mixture feeding. Some farmers feed the mineral mixture available for large ruminants in little quantity.**
Farmer's yield	-
Season	Kharif 2022
Cost per replication (Rs.)	Rs.4200
No. of replications	5
Total cost for the OFT	Rs.21000
Parameters to be studied	Body weight (kg); Body weight gain (gm/day), BCR
Parameters to be reported	Body weight gain and body weight at marketing age (kg), BCR
Source of funding	KVK Main
Team members	SMS (Animal Science), Senior Scientist and Head, SMS (Agrl. Extension)

OFT No.	**10**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Animal Science
Theme	Dairy cattle health management
Category (if applicable)	Dairy Cattle
Crop/ enterprise	Goats / Sheep
Farming situation	Semi intensive farming system
Prioritized problem (short)	Ticks and tick-borne diseases (TTBDs) on an average cost Rs 400 per livestock owning household (Excluding productivity loss) Vector for LSD, Protozoal diseases. On an average 10% of clinical cases are TTBDs ; Acaricidal resistance to Synthetic drugs
Title of the OFT	**Assessment of Methicon spray to mitigate the acaricidal resistance of ectoparasites in dairy animals**
Technology options	
TO-1	**Methicon spray**
Source and year	TANUVAS ,2022
Description (short)	Methicon Spray developed by TRPVB,TANUVAS helps to mitigate acaricidal resistance of ectoparasites in livestock. It contains Dimethicon oil and polyherbals which are encapsulated in nano farm. Useful for control of

	ectoparasites
Potential yield/income	-
Critical Inputs	Methicon Spray , Rs,150
Source of Inputs	TANUVAS, Chennai
Photos	
TO-2	**NIF Polyherbal Spray**
Source and year	NIF- DST, 2019
Description (short)	NIF Polyherbal Formulation : A formulation consisting of herbal ingredients like Neem (*Azadirachta indica*) & Nochi (*Vitex negundo*) developed & standardized by NIF-DSThas been found to be effective in combatting tick infestation among dairy animals. Mixing 0f 300 ml of Neem extract (*Azadirachta indica)* with 100 ml notchi (*Vitex negundo*)extract 3: 1 ratio, mixing of crude extract in 3.6 litre of Normal water (about 6% Concentration). Herbal Acaricidal Liquid preparation to mitigate the acaricidal resistance of ectoparasites in dairy cattle .
Potential yield/income	-
Critical inputs & quantity and cost	NIF Polyherbal Liquid, Rs.100, Field Board
Source of Inputs	NIF technology - Polyherbal liquid preparation
Photos	  
Farmer's Practice	**Use of Deltamethrin (2%) / Flumethirin (1%)**
Farmer's yield	-
Season	-
Cost per replication (Rs.)	Rs. 450
No. of replications	15
Total cost for the OFT	Rs. 6750
Parameters to be studied	Efficiency of Drug - Tick count and recurrence (*6^{th}, 24^{th}, 30^{th}, 48^{th}, 54^{th} and $72^{th\ hour}$ after application of drug and 7, 14, 28^{th} day)*
Parameters to be reported	Efficiency and Recurrence rate after application
Source of funding	SC SP
Team members	SMS (Animal Science), SMS (Agrl. Extension)

OFT No.:	**11**
Status (New proposal/2nd year /3rd year)	New
Subject	Home Science
Theme	Value Addition
Category (if applicable)	Millets
Crop/ enterprise	Enterprise
Farming situation	-
Prioritized problem (short)	Unawareness on processing and dehydration of millet flour and low price due to raw sales, middle men
Title of the OFT	**Assessment of different dehydration techniques of millet pappad**
Technology options	
TO-1	**Multigrain millet flour papad using cabinet drier**
Source and year	IIFPT 2019
Description (short)	Composite millet flours like ragi, barnyard, kodo millet is mixed with urad flour, spices, etc and the dough is made into a batter and pressed and dried using cabinet drier
Potential yield/income	-
Critical Inputs	Millets, raw materials, packaging materials
Source of Inputs	Local
TO-2	**Ragi Papad - Dehydration Using Solar Drier**
Source and year	TNAU 2016
Description (short)	The ragi flour is mixed with urad dhal flour, spices and oil, and other ingredients and the dough is made into a batter and dried using solar drier
Potential yield/income	-
Critical inputs& quantity and cost	Ragi flour, raw materials, packaging materials - Rs 1000
Source of Inputs	Local
Farmer's Practice	**Traditional sun drying**
Farmer's yield	-
Season	-
Cost per replication (Rs.)	Rs. 1000
No. of replications	5
Total cost for the OFT	Rs. 5000
Parameters to be studied	Shelf life, organoleptic evaluation, BCR
Parameters to be reported	Net income, BCR
Source of funding	KVK Main
Team members	SMS (Home Science, Agronomy, Extension)

OFT No.:	**12**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Home Science
Theme	Value addition
Category (if applicable)	-
Crop/ enterprise	Enterprise
Farming situation	-
Prioritized problem (short)	Low price and glut in the market
Title of the OFT	**Assessment of guava preserve with different preservation techniques**
Technology options	
TO-1	**Preservation of preserve with addition of jaggery**
Source and year	CSC & RI ,TNAU 2014
Description (short)	The guava slices are immersed in water and cooked at particular brix and the syrup is preserved in jaggery for extending the shelf life of the product
Potential yield/income	-
Critical Inputs	Raw materials, packaging materials
Source of Inputs	Local
Photos	-
TO-2	**Preservation of Guava Preserve with Addition of Sugar**
Source and year	UAS Bangalore, 2014
Description (short)	The guava is cooked and preserved in sugar solution ,at 68 degree brix for extending the shelf life of the product
Potential yield/income	-
Critical inputs & quantity and cost	Raw materials, packaging materials - Rs. 1200/-
Source of Inputs	Local
Farmer's Practice	**Raw sales, poor shelf life**
Farmer's yield	-
Season	-
Cost per replication (Rs.)	Rs. 1200
No. of replications	5
Total cost for the OFT	Rs. 6000
Parameters to be studied	Shelf life, organoleptic evaluation, BCR
Parameters to be reported	net income, BCR
Source of funding	KVK Main
Team members	SMS (Home Science, Agronomy, Extension)

9. Frontline Demonstrations proposed during 2022-23

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	Little Millet (Samai)	Demonstration on Little millet variety ATL-1	Lack of awareness on improved variety and Low yield in existing variety	Varietal introduction - Little millet variety ATL 1	TNAU 2019	New	15	6	11,550	SMS (Agronomy and Agrl. Extension)	-	**15**
2	Paddy	Demonstration on Paddy variety VGD-1under Organic Farming	More pest & disease incidence and low yield due to improper crop management	Varietal introduction - Paddy variety VGD 1	TNAU 2019	New	10	4	21900	SMS (Agronomy and Agrl. Extension)	-	**10**
3	Castor	Demonstration on Castor YRCH 2	Repeated cultivation of old traditional varieties which gives poor yield	Varietal introduction – Castor YRCH 2	TNAU 2017	New	10	4	10,500	SMS (Agronomy and Agrl. Extension)	-	-
4	Finger Millet	Demonstration on Finger millet variety ATL-1	low yield due to repeated cultivation of existing old varieties	Varietal introduction - Finger millet variety ATL 1	TNAU 2021	New	10	4	8,500	SMS (Agronomy and Agrl. Extension)	-	**10**

5	Horticulture crops/ Brinjal	Demonstration on Brinjal Variety VRM (Br) 2	Low yield due to the cultivation of spiny brinjal	Variety –VRM (Br) 2, INM, IPM	TNAU	New	10	1	25,000	SMS (Horticulture and Soil Science)	-	**10**
6	Horticulture crops/ Chilli	Demonstration of Chilli Hybrid Arka Saanvi	Low yield due to pest and diseases in private hybrids.	Variety Arka Saanvi, INM, IPM	IIHR	New	10	1	24,500	SMS (Horticulture and Soil Science)	**10**	-
7	Horticulture crops/ French Beans	Demonstration of Arka Sukomal variety of French Bean	Less yield due to cultivation non-descriptive type variety	Demonstration on Arka Sukomal, INM, IPM	IIHR	New	5	0.5	31,250	SMS (Horticulture and Soil Science)	-	**5**
8	Mango	Demonstration on Integrated Crop Management in Mango	Improper nutrient management and improper pest and disease management	Integrated Crop Management	IIHR	New	10	4	36,100	SMS (Soil Science, Horticulture and Agrl. Extension)	-	**10**
9	Banana	Micronutrient Management in Banana	Improper nutrient management	Micronutrient management using Banana Sakthi	ICAR-NRCB, Trichy 2020	New	10	4	10,000	SMS (Soil Science, Horticulture and Agrl. Extension)	**10**	-
10	Coconut	Integrated Nutrient Management in Coconut	Improper nutrient management	Integrated Nutrient Management	TNAU 2020	New	10	4	14,900	SMS (Soil Science, Horticulture and Agrl. Extension)	-	**10**

11	Cassava	Demonstration on Foliar Nutrition in Cassava	Improper nutrient management	Foliar nutrition with TNAU Cassava booster	TNAU 2020	New	10	4	17,500	SMS (Soil Science, Horticulture and Agrl. Extension)	-	-
12	Horticulture crops/ Jasmine	Demonstration on off season flowering techniques with ICM in Jasmine	Improper nutrient, pest and disease management	Demonstration on ICM with offseason flowering techniques	TNAU	New	10	1	17,900	SMS (Horticulture and Soil Science)	-	-
13	Groundnut / Farm Mechanization	Demonstration on Groundnut seed drill (ANGRAU model)	Acute labour shortage for Sowing operations.	Demonstration on Tractor drawn Groundnut seed drill (ANGRAU model) for sowing groundnut seed	ANGRAU 2017	New	10	4	23,000	Prog. Assistant, SMS (Soil Science)	**10**	-
14	Cereals - Maize / Farm Mechanization	Demonstration on Rotary dibbler (Multi crop seed drill)	Labour shortage, Huge wages and drudgery.	Demonstration on manual operated multi crop seed drill	AICRP on Farm Implements & Machinery – CIAE (2012)	New	10	4	26,000	Prog. Assistant, SMS (Horticulture)	**10**	-

15	Cereals - Paddy / Farm Mechanization	Demonstration on Improved Direct paddy seeder & Cono weeder (TNAU model)	Farmers unaware of mechanical sources on Direct paddy seeder & Cono weeder	Demonstration on Improved direct paddy seeder for sowing and Cono weeder (TNAU model) for weeding	TNAU, Coimbatore (2012)	New	6	2.4	19,400	Prog. Assistant, SMS (Agronomy)	-	-
16	Vegetables - Tomato / Farm Mechanization	Demonstration on Vegetable planter (manual operated)	Labour shortage, High wages and drudgery Unawareness of new technologies	Demonstration on Vegetable planter	AMRC TNAU, (2019)	2nd Year	5	2	18,500	Prog. Assistant, SMS (Horticulture)	**5**	-
17	cereals / Paddy	Demonstration on IPDM in Paddy	Lack of Knowledge on pest and disease management	Demonstration on Integrated pest and disease management by using bio agents	TNAU 2020	2nd Year	10	4	19,500	SS and Head, SMS (Agronomy)	-	**10**
18	Vegetables / Tomato	Demonstration on IPM in Tomato	Infestation of sucking pests, Fruit borers, Pinworm	Integrated Pest Management in tomato	TNAU 2020	New	10	4	17,600	SS and Head, SMS (Horticulture)	**10**	-
19	Oil seeds /Groundnut	Demonstration on management of wild boar menace using herbal repellent	Wild Boar menace	Management of wild boar menace using herbal repellent	Farmer Innovation, ICAR-KVK, Erode 2018	New	10	4	22,000	SS and Head, SMS (Agronomy)	-	-

20	Poultry /Desi Chicken	Demonstration of ProBeads-EC on growth performance of Desi-chicken	Pathogenic Bacteria in gut Challenge's health of desi chicken. Farmers not aware of gut health enhancers and not using probiotics for scavenging desi chicken at field level	Oral administration of Probeads EC beads @ 5 beads / bird /day	TANUVAS 2020	2nd Year	10	-	11,000	SMS (Animal Science and Agrl. Extension)	-	**10**
21	Poultry /Desi Chicken	Popularization of TANUVAS Aseel under backyard condition	Less aware of improved native chicken breeds and poor weight gain in native chicken reared under backyard condition	TANUVAS Aseel rearing under backyard condition	TANUVAS 2017	3rd Year	10	-	27,000	SMS (Animal Science and Agrl. Extension)	-	**10**
22	Large Ruminants /Fodder crop for Dairy cattle	Demonstration of 10 cent Multicrop fodder production model	Less aware of latest High yielding varieties and also less aware of balanced mixed fodder cultivation .Mono fodder cultivation mostly grasses (CO 4)	Multi crop 10 cent fodder production	TANUVAS 2019	3rd Year	10	0.4	13,950	SMS (Animal Science, Agrl. Extension and Agronomy)	-	**10**

23	Poultry /Desi chicken	Popularization of Namakkal Gold Quail in Krishnagiri district	Lack of awareness on improved hybrid quail	Namakkal Gold quail - Improved hybrid quail with average body weight of 250gm and better disease resistance, livability of 95%	TANUVAS 2013	New	10	-	15,000	SMS (Animal science and Extension)	**10**	**-**
24	Women and child- Crop	Demonstration of Nutri Garden	Lack of awareness on nutritional, medicinal, economical aspects of Nutrigarden	Organic method of cultivation ,and utilization of backyard space for growing leafy vegetables and multigreens for nutritional improvement for farm families	TNAU 2015		5	-	6,000	SMS (Home Science, Agronomy and Extension)	**-**	**5**
25	Value addition/ Enterprise	Demonstration of palmyrah value added products	Poor shelf life. low price for the sale of palm fruit, unawareness on processing techniques	Demonstration of palm value added products	TNAU 2020		3	-	3,600	SMS (Home Science and Extension)	**-**	**-**
26	Mushroom/ Enterprise	Demonstration of Arka Om - 1 oyster mushroom variety	Unawareness of cultivation of new variety of mushroom to fetch better price	Demonstration of Arka Om - 1 oyster mushroom	IIHR 2011		5	-	6,000	SMS (Home Science and Horticulture)	**-**	**-**

27	Others /Agricultural Extension	Demonstration On android based TNAU Coconut Expert System	Lack of awareness of Coconut cultivation techniques through ICT	Installation of TNAU Mobile Apps to Coconut growers	TNAU	New	50	-	2,500	SMS (Agrl. Extension and Animal Science)	**-**	**50**
28	Others /Agricultural Extension	Demonstration On android based "News on AIR app"	Lack of awareness On android based "News on AIR app"	Installation of "News on AIR Apps" to Farmers	All India Radio (2018)	New	50	-	5,000	SMS (Agrl. Extension and Animal Science)	**50**	**-**

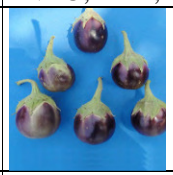
9.2. Details of FLDs 2022-23

FLD No.:	**01**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Minor Millets
Crop/ enterprise:	Little Millet (Samai)
Farming situation	Rainfed
Prioritized problem:	Samai is cultivated in area about 1383 ha in Tirupathur district under rainfed condition. Farmers facing low yield due to repeated cultivation of old traditional varieties. Newly released Little Millet (ATL 1) variety have yield characters35% more than old varieties.
Title	**Demonstration on Little millet variety ATL 1**
Technology to be demonstrated:	Varietal introduction - Little millet variety ATL 1
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2019
Description	Drought tolerant, Uniform maturity, non-lodging type. Duration (85-90 days)**.**
Potential yield	Yield – 1590 kg / ha
Critical input, quantity and cost	Little Millet ATL 1 seed - 4 Kgs (Rs.400/-), Azospirillum – 1 Kg (Rs.60/Kg) Phosphobacteria – 1 Kg (Rs.60/Kg),Soil test – 1 No. (Rs.50) Field board -1 No. (Rs.200)
Farmers practice	Old traditional varieties
Source of input	TNAU
Photos	
Average farmers yield	560 Kg/ha
Season	Kharif 2022
No. of Demos (replications)	15
Total cost for the Demo	Rs.11550
Parameters to be studied:	Growth parameters, Yield and BCR
Parameters to be reported	Growth parameters, Yield and BCR
Source of funding	SC SP
Team members	SMS (Agronomy) and SMS (Agrl. Extension)

FLD No.:	**02**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Cereals
Crop/ enterprise:	Paddy
Farming situation	Irrigated
Prioritized problem:	Paddy is cultivated in area about 10610 ha in Krishnagiri district under irrigated condition. Repeated cultivation of existing varieties (Improved White Ponni and Private varieties) leads to Pest and disease susceptibility which results in poor yield. Newly released super fine Paddy variety (VGD 1) yielding 20% higher than ruling varieties.
Title	**Demonstration on Paddy variety VGD 1under Organic Farming**
Technology to be demonstrated:	Varietal introduction - Paddy variety VGD 1
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2019
Description	Fine grain, semi-dwarf, erect, high tillering, non-lodging plant habit with grain type similar to land race Seeraga samba. It is suitable for Samba and late samba seasons. Duration (130 days) and moderately resistant to leaf folder, blast and brown spot.
Potential yield	Yield – 9500 Kg / ha.
Critical input, quantity and cost	Paddy VGD 1 seeds 14 Kgs (Rs. 1400/-), Azospirillum – 3 Kg (Rs. 180/Kg), Phosphobacteria – 3 Kg (Rs. 180/Kg) , Bacillus Subtillis - 1 Kg (Rs. 180), Soil test – 1 No. (Rs. 50) and Field board -1 No. (Rs. 200)
Farmers practice	Improved White ponni and Private varieties
Source of input	TNAU
Photos	
Average farmers yield	3500 Kg/ha
Season	Kharif (Samba), 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs. 21900
Parameters to be studied:	Growth parameters, Yield and BCR
Parameters to be reported	Growth parameters, Yield and BCR
Source of funding	SC SP
Team members	SMS (Agronomy) and SMS (Agrl. Extension)

FLD No.:	**03**
Status (New proposal/2nd year /3rd year)	New year
Subject	Agronomy
Category:	Non edible Oilseeds
Crop/ enterprise:	Castor
Farming situation	Rainfed, Sandy Loam
Prioritized problem:	Castor is cultivated in area about 50 ha in Krishnagiri district under rainfed. Due to repeated cultivation of old traditional varieties which gives poor yield. Newly released Castor (YTP 1) variety yielding 40% higher than the old varieties.
Title	**Demonstration on Castor YRCH 2**
Technology to be demonstrated:	Varietal introduction – Castor YRCH 2
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2017
Description	Duration – 180 Days, Red stem and triple bloom, Non lodging plants and non-shattering capsules, Basal branching type, Semi-dwarf and high basal branching; proportion of female flowers (95%); suitable for rainfed and areas of limited irrigation. Compact plant type suitable for Intercropping. Tolerant to semilooper, spodoptera, leaf hopper and capsule borer.
Potential yield	Yield – 2089 kg / ha
Critical input, quantity and cost	Castor YRCH 2 Seeds 2 kgs (Rs. 800) Soil test – 1 No. (Rs.50) and Field board -1 No. (Rs.200)
Farmers practice	Old traditional varieties
Source of input	TNAU
Photos	
Average farmers yield	400 Kg/ha
Season	Kharif 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.10500
Parameters to be studied:	Growth parameters, Yield and BCR
Parameters to be reported	Growth parameters, Yield and BCR
Source of funding	KVK Main
Team members	SMS (Agronomy) and SMS (Agrl. Extension)

FLD No.:	**04**
Status (New proposal/2nd year /3rd year)	New year
Subject	Agronomy
Category:	Major Millets
Crop/ enterprise:	Finger Millet
Farming situation	Rainfed, Sandy loam
Prioritized problem:	Ragi is cultivated in area about 5200 ha in Krishnagiri under irrigated condition. Farmers facing low yield due to repeated cultivation of existing old varieties. Newly released Finger Millet (ATL 1) variety yielding 30% higher than old varieties.
Title	**Demonstration on Finger millet variety ATL 1**
Technology to be demonstrated:	Varietal introduction - Finger millet variety ATL 1
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2021
Description	Non-lodging traits, bold grains with high bulk density, high flouring capacity (92%).Moderately resistant of leaf, neck and finger blasts. No serious pest incidence.
Potential yield	Yield – 3130 kg / ha
Critical input, quantity and cost/demo	Finger Millet ATL 1 seed - 4 Kgs (Rs.480/-), Azospirillum – 1 Kg (Rs.60/Kg), Phosphobacteria – 1 Kg (Rs.60/Kg), Soil test – 1 No. (Rs.50) and Field board -1 No. (Rs.200)
Farmers practice	Old traditional varieties
Source of input	TNAU
Photos	
Average farmers yield	1500 Kg/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.8500
Parameters to be studied:	Growth parameters, Yield and BCR
Parameters to be reported	Growth parameters, Yield and BCR
Source of funding	SC SP
Team members	SMS (Agronomy) and SMS (Agrl. Extension)

FLD No.:	**05**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Vegetables
Crop/ enterprise:	Brinjal
Farming situation	Irrigated, Red sandy loam
Prioritized problem:	Less yield due to the cultivation of spiny brinjal and the problem of spiny nature.
Title	**Demonstration on Brinjal Variety VRM (Br) 2**
Technology to be demonstrated:	Variety –VRM (Br) 2, INM, IPM
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2021
Description	VRM (Br) 2 is a non-spiny Brinjal variety developed and released by ARS, Vellore. Brinjal VRM (Br) 2 variety with 140 days duration. Its fruits are oval and deep purple in color with green tinge in the distal end. Fruits borne in cluster with 2-3 with an average fruit weight of 100-150g and yields 50t/ha. It is spineless brinjal to replace VRM (Br) 1 to facilitate harvest, packing, transport and storage. It grows well in high temperature regions of northern Tamil Nadu and moderately tolerant to brinjal shoot borer and little leaf disease.
Potential yield	50 t/ha.
Critical input, quantity and cost/demo	Seedlings 6000 nos (Rs. 1,850/-) , IIHR Vegetable Special 2 Kg (Rs. 400/-) , Field Board - 1 No. (Rs. 200/-) and Soil Test - 1 No. (Rs.50/-)
Farmer's practice	Farmers use non-descript varieties which is spiny in nature.
Source of input	TNAU, IIHR, KVK
Photos	
Average farmers yield	35 t/ha
Season	Kharif 2022 - 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs. 25000
Parameters to be studied:	Growth parameters, Pest and disease incidence, Yield, gross and net income, BCR
Parameters to be reported	Growth parameters, Pest and disease incidence, Yield, gross and net income, BCR
Source of funding	SC SP
Team members	SMS (Horticulture), SMS (Soil Science)

FLD No.:	**06**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Vegetables
Crop/ enterprise:	Chilli Hybrid
Farming situation	Irrigated, Red sandy loam
Prioritized problem:	Low yield due to pest and diseases in private hybrids.
Title	**Demonstration of Chilli Hybrid Arka Saanvi**
Technology to be demonstrated:	Variety Arka Saanvi, INM, IPM
Hybrid or Variety:	Hybrid
Source of Technology:	IIHR 2020
Description	High yielding chilli F1 hybrid suitable for green and dry chilli market, plants medium tall & spreading, fruits pendent, 7-8 x 1-1.2 cm, firm, medium pungent, green and turn red on maturity, smooth turn to medium wrinkled on maturity, tolerant to chilli leaf curl virus, yield potential 30-35q dry chilli/ acre.
Potential yield	8.75 t/ha. Dry chillies
Critical input, quantity and cost	Seedlings 5000 nos (Rs. 1,800/-), IIHR Vegetable Special 2 Kg (Rs.400 /-), Field Board -1 No. (Rs.200/-) and Soil Test (Rs. 50/-)
Farmer's practice	Private hybrids
Source of input	IIHR, KVK
Photos	
Average farmers yield	5 t/ha.
Season	Kharif 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs. 24500
Parameters to be studied:	Growth parameters, Pest and disease incidence, Yield, gross and net income, BCR
Parameters to be reported	Growth parameters, Pest and disease incidence, Yield, gross and net income, BCR
Source of funding	KVK Main
Team members	SMS (Horticulture) , SMS (Soil Science)

FLD No.:	**07**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Vegetables
Crop/ enterprise:	French Beans
Farming situation	Irrigated
Prioritized problem:	Less yield due to cultivation non-descriptive type variety
Title	**Demonstration of Arka Sukomal variety of French Bean**
Technology to be demonstrated:	Arka Sukomal variety, INM, IPM
Hybrid or Variety:	Variety
Source of Technology:	IIHR 2018
Description	High yielding rust resistant pole bean variety. Plants are indeterminate which grow more than 2.0m in height. Variety takes 60 days for 1st harvest. Pods stringless, oval, green and long (23 cm). Ten pod weight:87 g. Yield potential :24 t/ha in 100 days. Suitable for both kharif & rabi seasons.
Potential yield	24 t/ha.
Critical input, quantity and cost	Seeds 20 Kg (Rs. 6000/-), Field Board 1 No. (Rs.200/-) Soil Test - 1 No. (Rs.50/-)
Farmer's practice	Farmers use non-descript varieties
Source of input	IIHR, KVK
Photo	
Average farmers yield	18 t/ha.
Season	Kharif 2022
No. of Demos (replications)	5
Total cost for the Demo	Rs. 31250
Parameters to be studied:	Growth parameters, Pest and disease incidence Yield, gross and net income, BCR
Parameters to be reported	Growth parameters, Pest and disease incidence Yield, gross and net income, BCR
Source of funding	SC SP
Team members	SMS (Horticulture), SMS (Soil Science)

FLD No.:	**08**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Category:	Fruit crops
Crop/ enterprise:	Mango
Farming situation	Rainfed, red sandy loam soil
Prioritized problem:	Mango is cultivated in Krishnagiri district in an area of 44,000 ha. Improper nutrient management and improper pest and disease management alone contribute about 30 – 40 yield loss in rainfed condition. In micronutrients, boron and zinc deficiencies are widely seen in mango orchards and the farmers have to be demonstrated with the proper micronutrient management technologies. Also the fruit fly management using Male Annihilation Technology with Methyl eugenol traps need to be popularized to reduce the production and productivity loss of mango in the district.
Title	**Demonstration on Integrated Crop Management in Mango**
Technology to be demonstrated:	Integrated Crop Management
Hybrid or Variety:	Variety (Bengalura)
Source of Technology:	IIHR
Description	➢ Integrated Nutrient Management with emphasis on IIHR Mango special spraying (4 sprays @ 0.5% - 2 pre-flowering and 2 post flowering) ➢ Pest Management (For Hopper, Thrips and Stem borer)with emphasis on Fruitfly management using Methyl eugenol traps @ 25/ha ➢ Disease Management (Anthracnose & Powdery mildew)
Potential yield	8 - 10 t/ha
Critical input, quantity and cost	IIHR Mango special – 40 kg/ha, Rs.160/kg, Methyl eugenol traps – 25 Nos./ha, Rs.80/trap, Soil testing – 1No. (Rs.50/-) and Field board (1 No.) – Rs.200/-
Farmer's practice	No proper nutrient supplementation in time and no management for fruit-fly infestation.
Source of input	KVK
Photos	
Average farmers yield	3 – 4 t/ha
Season	Kharif, 2022
No. of Demos (replications)	10 (4 ha)

Total cost for the Demo	Rs. 36100 (Including field board)
Parameters to be studied:	Visual diagnosis for the deficiency symptoms, Fruit fly incidence, Yield, Gross Cost, Net income and BCR
Parameters to be reported	Yield, Gross Cost, Net income and BCR
Source of funding	SC SP
Team members	SMS (Soil Science), SMS (Horticulture) and SMS (Agrl. Extension)

FLD No.:	**09**
Status (New proposal/2nd year /3rd year)	New
Subject	Soil Science
Category:	Fruit crops
Crop/ enterprise:	Banana
Farming situation	Irrigated; red sandy loam soil
Prioritized problem:	Banana is cultivated in Krishnagiri district in an area of 2,600 ha. Overall the improper nutrient management leads to 20 – 30 % yield loss. Usually, the farmers concentrate on major nutrients supplementation through fertilizers but mostly unaware of micronutrient deficiencies in banana. In banana, deficiencies of boron, zinc, manganese and iron are mostly seen in the farmers fields for which liquid micronutrient formulation called Banana Sakthi developed by ICAR-NRCB, Trichy can be of much useful in remediating the problem. Hence demonstration on micronutrient management using Banana Sakthi is to be done to get increased yield in banana.
Title	**Micronutrient Management in Banana**
Technology to be demonstrated:	Micronutrient management using Banana Sakthi
Hybrid or Variety:	Variety (Elaki)
Source of Technology:	ICAR-NRCB, Trichy, 2020
Description	Foliar spraying of Liquid Banana Sakthi @ 2 % to be done at 4,5 & 6th months after planting.
Potential yield	15 kg/bunch
Critical input, quantity and cost	Banana Sakthi –6lit/acre, Rs.125/lit, Soil testing – Rs.50/- and Field board (1 no) – Rs.200/-
Farmer's practice	No proper micronutrient supplementation in time.
Source of input	ICAR-NRCB, Trichy
Photos	
Average farmers yield	10-13 kg/bunch
Season	Kharif, 2022

No. of Demos (replications)	10 (4 ha)
Total cost for the Demo	Rs.10000
Parameters to be studied:	Visual diagnosis for the deficiency symptoms, Yield, Gross Cost, Net income and BCR
Parameters to be reported	Yield, Gross Cost, Net income and BCR
Source of funding	KVK Main
Team members	SMS (Soil Science), SMS (Horticulture) and SMS (Agrl. Extension)

FLD No.:	**10**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Category:	Oilseeds
Crop/ enterprise:	Coconut
Farming situation	Irrigated; red sandy loam soil
Prioritized problem:	Coconut is cultivated in an area of 18,000 ha in Krishnagiri district. The coconut farmers usually do not supplement soil with nutrients for its sustained productivity which leads to yield loss upto 20 - 30 %. The major and micronutrient deficiencies are widely prevalent in most of the coconut farms in the district. Improper nutrition results in button shedding and cracking of nuts mostly. Proper nutrient management can improve and increase the yield of trees. Hence the integrated nutrient management with emphasis on micronutrients is to be demonstrated to the coconut farmers in this FLD.
Title	**Integrated Nutrient Management in Coconut**
Technology to be demonstrated:	Integrated Nutrient Management
Hybrid or Variety:	Variety (Arasampatti tall)
Source of Technology:	CPG, 2020
Description	FYM – 50 kg + Bio fertilizers (50 g each of Azospirillum, Phosphobacteria& VAM) + 560:320:1200 g NPK in 2 splits + Root feeding of TNAU Coconut Tonic @ 200 ml/tree once in 6 months.
Potential yield	80 – 100 nuts /tree/year
Critical input, quantity and cost per demo	Coconut Tonic – 4 lit/acre, Rs.310/lit, Soil testing – Rs.50/- and Field board (1 no) – Rs.200/-
Farmer's practice	No proper nutrient supplementation in time.
Source of input	TNAU

Photos	
Average farmers yield	55 – 65 nuts/tree/year
Season	Kharif, 2022
No. of Demos (replications)	10 (4 ha)
Total cost for the Demo	Rs.14900
Parameters to be studied:	Visual diagnosis for the deficiency symptoms, Yield, Gross Cost, Net income and BCR
Parameters to be reported	Yield, Gross Cost, Net income and BCR
Source of funding	SC SP
Team members	SMS (Soil Science), SMS (Horticulture) and SMS (Agrl. Extension)

FLD No.:	**11**
Status (New proposal/2nd year /3rd year)	New
Subject	Soil Science
Category:	Tuber crops
Crop/ enterprise:	Cassava
Farming situation	Irrigated; red sandy loam soil
Prioritized problem:	Cassava one of the important tuber crop cultivated in Krishnagiri district. But the farmers mostly not concentrating on nutrition aspect while cultivating the cassava crop which results in yield loss up to 15 – 20 As most of soil in Krishnagiri district lack in essential nutrients and improper nutrition results in reduction in tuber weight and yield loss. Hence proper nutrient management especially through foliar spraying with TNAU Cassava booster is to be demonstrated in this FLD.
Title	**Demonstration on Foliar Nutrition in Cassava**
Technology to be demonstrated:	Foliar nutrition with TNAU Cassava booster
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2020
Description	Foliar spraying of Cassava Booster (mixture of organic manure *viz*., cow dung, neem cake, bio-control agent & inorganic nutrients) – 3 sprays at 2nd, 3rd& 4thmonths after planting @ 5 kg/acre.

Potential yield	45 – 50 t/ha
Critical input, quantity and cost	TNAU Cassava booster –15 kg/acre, Rs.500/5 kg bag, Soil testing – Rs.50/- and Field board (1 no) – Rs.200/-
Farmer's practice	No proper foliar nutrition done.
Source of input	TNAU
Photos	
Average farmers yield	35 – 40 t/ha
Season	Kharif, 2022
No. of Demos (replications)	10 (4 ha)
Total cost for the Demo	Rs.17500
Parameters to be studied:	Visual diagnosis for the deficiency symptoms, Yield, Gross Cost, Net income and BCR
Parameters to be reported	Yield, Gross Cost, Net income and BCR
Source of funding	KVK Main
Team members	SMS (Soil Science), SMS (Horticulture) and SMS (Agrl. Extension)

FLD No.:	**12**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Flowers
Crop/ enterprise:	Jasmine
Farming situation	Irrigated
Prioritized problem:	Improper nutrient, pest and disease management
Title	**Demonstration on Off season flowering techniques with ICM in Jasmine**
Technology to be demonstrated:	Demonstration on ICM with offseason flowering techniques
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2020
Description	Pruning the bushes at 50 cm height during Sep; Biostimulants: Foliar spray of panchagavya 3% + humic acid 0.4% at monthly intervals; Micronutrients: Foliar spray of FeSO4 @ 0.5% + ZnSO4 @ 0.5% at monthly intervals.
Potential yield	8.1 t/ha.

Critical input, quantity and cost	Pruning shears (1 No - Rs. 1000/-), Humic acid Rs. 390/-, Micronutrients - Rs. 200/-, Field Board (1 No - Rs. 200/-)
Farmers practice	Pruning during December and indiscriminate use of fertilizers and growth regulators.
Source of input	TNAU
Photos	
Average farmers yield	6 t/ha.
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs. 17900
Parameters to be studied:	Time of flowering, Growth parameters, average flower weight, Yield, BCR
Parameters to be reported	Time of flowering, Growth parameters, average flower weight, Yield, BCR
Source of funding	KVK Main
Team members	SMS (Horticulture), SMS (Soil Science)

FLD No.:	**13**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agricultural Engineering
Category:	Farm Implements
Crop/ enterprise:	Groundnut / Farm Mechanization
Farming situation	Rainfed - red sandy loam
Prioritized problem:	Groundnut is cultivated in about 4500 ha in the district in which 1700 ha is under Rainfed. All the farmers start the cultivation operations immediately after receiving the rain which results in acute labour shortage for various operations. Hence the scarcity of labour is the major problem. High seed rate, wages and drudgery operations. Spacing between plant to plant and row to row is not maintained. Farmer's unaware of mechanical source
Title	**Demonstration on Groundnut seed drill (ANGRAU model)**
Technology to be demonstrated:	Demonstration on Tractor drawn Groundnut seed drill (ANGRAU model) for sowing groundnut seed
Hybrid or Variety:	Variety

Source of Technology:	ANGRAU, 2017
Description	Timely operation can be done with very few laborers. Uniform spacing is maintained - Row to row is 30 cm & Plant to plant is 10 cm Uniform depth also maintained – 4 cm Drudgery reduction during weeding.
Potential yield	23.6 q/ha
Critical input, quantity and cost	Tractor drawn groundnut seed drill hiring charge – 1 hr 30 min required for 1 ac. @ Rs. 1,400 per hr, Hence Rs.2,100/ac and Field Board Rs.200
Farmers practice	Conventional type of groundnut seed sowing by manual behind country plough
Source of input	KVK
Photos	 Hiring charge - Seed drill
Average farmers yield	16 q/ha
Season	Kharif 2022-23
No. of Demos (replications)	10
Total cost for the Demo	Seed drill – For 1 ac. Requires 1 hr 30 min. @ Rs. 1,400 per hr = Rs.2,100 per ac., hence for 10 ac Rs.21,000/- Field board 1 no = Rs. 200, hence for 10 nos Rs.2,000/- Total cost for 10 demos. = **Rs. 23000**
Parameters to be studied:	Required labour, time taken, expenses, yield
Parameters to be reported	Labour, cost and Time saving efficiency, Gross cost, Net Income, BCR
Source of funding	KVK Main
Team members	Prog. Assistant, SMS (Soil Science)

FLD No.:	**14**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agricultural Engineering
Category:	Farm Implements
Crop/ enterprise:	Cereals - Maize / Farm Mechanization
Farming situation	Rainfed - red sandy loam
Prioritized problem:	Farmers using high seed rate, Irregular depth of planting, spacing between plant to plant and row to row is not uniform. Very less labour efficiency in sowing operation. Huge wages and drudgery. Unawareness of new machineries.
Title	**Demonstration on Rotary dibbler (Multi crop seed drill)**
Technology to be demonstrated:	Demonstration on manual operated multi crop seed drill, it is suitable for small land holdings. • Manual operated multi crop seed drill • All kinds of seed – Cereal, Pulses, Oilseeds, Maize, beans etc, can sow with single labour • Coverage 0.6 to 1.0 ha per day • Uniform spacing, depth maintained, Gender free, easy maintenance and low cost.
Hybrid or Variety:	Variety
Source of Technology:	AICRP on Farm Implements & Machinery – CIAE (2012)
Description	• Population 6-7 plants per sq.m. can maintain. (23 cm spacing between plant to plant) • Timely operation can be done with single labour (gender free). • Suitable for Maize, bean, peanut, cotton, sunflower, pulses and cereals • Uniform spacing is maintained - Plant to plant is 14 / 16 / 18 / 20 / 23 / 29 cm adjustable • Uniform depth also maintained – 2.5 to 5.0 cm, ensures the germination. • Drudgery reduction during sowing
Potential yield	31.25 q/ha
Critical input, quantity and cost	Multi crop seed drill – Rs. 8,000 per no. (10 demonstrations will be conducted with 3 machine, given to 3 FPOs) and Field Board Rs.200
Farmers practice	Dibble the seeds at a depth of 4 cm along the furrow.
Source of input	KVK

Photos	 Rotary Dibbler (Multi crop seed drill)
Average farmers yield	28.75 q/ha
Season	Kharif 2022-23
No. of Demos (replications)	10
Total cost for the Demo	Seed drill cost Rs.8,000 per no, hence 3 machine cost 3 x Rs. 8,000 = Rs.24,000 Field board 1 no = Rs. 200, hence 10 board 10 x Rs.200 = Rs. 2,000 Total cost for 10 demos. = **Rs. 26000**
Parameters to be studied:	Required labour, time taken, expenses, yield and selling price
Parameters to be reported	Labour, cost and Time saving efficiency, Gross cost, Net Income, BCR
Source of funding	KVK Main
Team members	Prog. Assistant, SMS (Horticulture)

FLD No.:	**15**
Status (New proposal/2nd year /3rd year)	New proposal (SAC Recommendation)
Subject	Agricultural Engineering
Category:	Farm Implements
Crop/ enterprise:	Cereals - Paddy / Farm Mechanization
Farming situation	Irrigated – Clay sandy loam
Prioritized problem:	In Paddy cultivation, transplanting and weeding operations requires huge labours and high wages. Unavailability of skilled labour is the major problem in this area. Farmers unaware of mechanical source Very high seed rate, irregular depth of planting, number of seedlings per hill and spacing between hills is not maintained. Labour efficiency is low. Unawareness of new machines operating procedure.
Title	**Demonstration on Improved Direct paddy seeder & Cono weeder (TNAU model)**
Technology to be demonstrated:	Demonstration on Improved direct paddy seeder for sowing and Cono weeder (TNAU model) for weeding.
Hybrid or Variety:	Variety
Source of Technology:	TNAU, Coimbatore (2012)

Description	Improved direct paddy seeder for sowing • Sprouted paddy seeds directly sowing in wetland fields (8 rows, 25 x 25 cm) • Labour cost is reduced drastically • Uniformity in seed sowing and Plant population • Continuous drilling of seeds is eliminated. • Reduction in seed rate (10 kg per ac) and thinning cost. • Crop matures 7-10 days earlier than the transplanted paddy • Light in weight and easy to handle • Coverage - 1 hectare per day with single labour. • Cono weeder (TNAU model) for weeding • Manually operated (Single person), for weeding in between rows of line sowing paddy crop by Push Pull Operation • Width of operation140-160 mm and weight 6 kgs • Coverage - 0.10 - 0.12 hectare / day of 8 hours of operation • The cono weeder has two conical rotors mounted in tandem with opposite orientation. Smooth and serrated blades are mounted alternately on the rotor to uproot and burry weeds when the rotors create a back and forth movement in the top 3 cm of soil.
Potential yield	61.25 q/ha
Critical input, quantity and cost	Improved direct paddy seeder – Rs. 6,600 per no. (6 demonstrations will be conducted with 2 machine), Cono weeder – Rs. 2,500 per no. (6 demonstrations will be conducted with 2 machine) and Field Board Rs.200 (6 nos)
Farmers practice	Conventional type of manual transplanting of paddy seedlings and manual weeding
Source of input	KVK
Photos	 
Average farmers yield	50.35 q/ha
Season	Kharif 2022-23
No. of Demos (replications)	6
Total cost for the Demo	• Improved direct paddy seeder (8 rows, 25 x 25 cm) – Rs. 6,600 per no. (6 demonstrations will be conducted with 2 machine), hence 2 seeder x Rs. 6,600 = Rs. 13,200/- • Cono weeder (TNAU model) – Rs.2,500 (2 weeder), hence 2 weeder x Rs. 2,500 = Rs. 5,000/-

	• Field Board Rs.200 (6 nos.), hence 6 x Rs.200 = Rs. 1,200/- Total cost = **Rs. 19400**
Parameters to be studied:	Required labour, time taken, expenses, yield and selling price
Parameters to be reported	Labour, cost and Time saving efficiency, Gross cost, Net Income, BCR
Source of funding	KVK Main
Team members	Prog. Assistant, SMS (Agronomy)

FLD No.:	**16**
Status (New proposal/2nd year /3rd year)	2nd year
Subject	Farm Implements
Category:	Farm Implements
Crop/ enterprise:	Vegetables - Tomato / Farm Mechanization
Farming situation	Irrigated – clay sandy loam
Prioritized problem:	Unavailability of skilled labour, High wages and drudgery Unawareness of new technologies / machines
Title	**Demonstration on Vegetable planter (manual operated)**
Technology to be demonstrated:	Vegetable seedlings transplanted by Vegetable planter
Hybrid or Variety:	Variety
Source of Technology:	AMRC, TNAU, Coimbatore (2019)
Description	Transplanting the seedlings made easy and fast. The transplanter opens a hole to plant from the standing position. A pair of trowels can penetrate the soil. In order to operate the tool, drop a seedling into guide tube, push the shut pair of trowels into the soil, grasp the latch and handle together and lift the tool straight up. It can save labour cost, less stress and very easy to use. It is very useful for planting of tomato, brinjal, chilli and many other vegetable seedlings.
Potential yield	**300.0 q/ha**
Critical input, quantity and cost	Vegetable Transplanter 1 no – Rs. 3,500, Field board 1 no – Rs. 200
Farmers practice	Transplanting of seedlings by manually
Source of input	KVK

Photos	 Vegetable planter (manual operated)
Average farmers yield	285.0 q/ha
Season	Kharif 2022-23
No. of Demos (replications)	5
Total cost for the Demo	Rs. 18500
Parameters to be studied:	Required time, labour and cost saving efficiency, Gross cost, net income, BCR
Parameters to be reported	Labour saving and time saving, gross cost, gross and net income, BCR
Source of funding	KVK Main
Team members	Prog. Assistant, SMS (Horticulture)

FLD No.:	**17**
Status (New proposal/2nd year /3rd year)	2nd year
Subject	Plant Protection
Category:	cereals
Crop/ enterprise:	Paddy
Farming situation	Borewell, irrigated
Prioritized problem:	Infestation of stem borer, leaf folder, Gall midge, Blast, BLB
Title	**Demonstration on IPDM in Paddy**
Technology to be demonstrated:	Integrated pest and disease management in Paddy
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2020
Description	• Seed treatment with Imidacloprid 48%FS @ 2.5 g/kg • Foliar application of *Lecanicillium lecanii* @ 1 lit/acre • Release of *Trichogramma japonicum* @ 2 cc • Release of *Trichogramma chilonis* @ 2 cc • Installation of solar light trap @ 1/acre.

	• Installation of Stem borer pheromone trap @ 10/acre • Installation of Yellow sticky trap @ 5/acre • Need based application of Neem oil @ 3%. • Foliar application of Cartop Hydrochloride 50% SP@ 400 g/ac (Stem borer & Leaf folder) • Spraying of Spraying of Tricyclazole at 1g/lit of water Foliar application of Thiomethaxam 25% WG@ 80 g/ac (BPH, Thrips, GLH)
Potential yield	6.5 tonnes/ha
Critical input, quantity and cost/demo	Neem oil- 1 lit, Rs. 700 Pheromone trap and stem borer lure -10 nos, Rs.1000 Yellow sticky trap - 5 nos Rs. 50 Field board - 1 no – Rs. 200/-
Farmers practice	Indiscriminate of pesticides
Source of input	Private companies
Photos	  
Average farmers yield	4.5 tonnes/ha
Season	Kharif, 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.19500
Parameters to be studied:	Pest and disease incidences, Yield and BC ratio
Parameters to be reported	Pest and disease incidences, Yield and BC ratio
Source of funding	SC SP
Team members	SS and Head, SMS (Agronomy)

FLD No.:	**18**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Plant Protection
Category:	Vegetables
Crop/ enterprise:	Tomato

Farming situation	Borewell, irrigated
Prioritized problem:	Infestation of sucking pests, Fruit borers, Pinworm
Title	**Demonstration on IPM in Tomato**
Technology to be demonstrated:	Integrated Pest Management in tomato
Hybrid or Variety:	Hybrid
Source of Technology:	TNAU 2020
Description	• Seed treatment with *Bacillus subtilis* @ 10g/kg of seeds • Nursery application with *Trichoderma viride* and *Bacillus subtilis* • Application of Neem cake @ 250kg/ha • Soil application of *Bacillus subtilis* @ 2.5kg/ha • Selection of good and virus disease free seedlings for planting • Roguing out of virus infected plants upto 45 days of transplanting • Grow marigold as a border crop • Spraying of hexaconazole 5% SC @ 1ml/l or propiconazole 25% EC @ 1 ml/l at 30 and 50 days after planting for early blight • Set up Helicoverpa / Spodoptera pheromone traps @ 12 numbers / ha • Release *Trichogramma chilonis* @ 50000/ha • Install yellow sticky traps • Spraying Neem formulations (1%) / Neem seed kernel extract (5%)
Potential yield	60 tonnes/ha
Critical input, quantity and cost	*Bacillus subtilis* – 1 kg - Rs. 200 Tuta lure and trap – 6 Nos.- Rs. 360 Yellow sticky trap - 6 Nos. –Rs. 300 Azadirachtin – 1 lit –Rs. 700 Field Board- 200
Farmers practice	Indiscriminate of pesticides
Source of input	Private companies
Photos	
Average farmers yield	30 tonnes/ha

Season	Rabi,2022
No. of Demos (replications)	10
Total cost for the Demo	Rs. 17600
Parameters to be studied:	Pest and disease incidences, Yield and BC ratio
Parameters to be reported	Pest and disease incidences, Yield and BC ratio
Source of funding	KVK Main
Team members	SS and Head, SMS (Horticulture)

FLD No.:	**19**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Plant Protection
Category:	Oil seeds
Crop/ enterprise:	Groundnut
Farming situation	Rainfed
Prioritized problem:	Wild Boar menace
Title	**Demonstration management of wild boar menace using herbal repellent**
Technology to be demonstrated:	Management of wild boar menace using herbal repellent
Hybrid or Variety:	Variety
Source of Technology:	Farmer Innovation, ICAR- KVK, Erode (Products approved by Farm Innovators meet by ICAR), 2018
Description	Spraying of One litre HERBOLIV+ Bio liquid mixed with nine litres of water at 20 days interval or at critical stages of wild boar menace. The Innovation helps to mask the odour of the crop and makes the crop non- palatable for wild animals. This makes the wildlife to change its direction and move to different place nearby.
Potential yield	2124kgs/ha -TMV 14
Critical input, quantity and cost	HERBOLIV+ - 20 lits- Rs. 2000 Field Board - 200 Field board - 1 no – Rs. 200/-
Farmers practice	Covering the field with wire, tying clothes around the field to deter and intrude the fields
Source of input	Innovative farmer
Photos	

Average farmers yield	1000 kgs/ha
Season	Kharif, 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs. 22000
Parameters to be studied:	Crop Damage %, crop health , Yield , BCR
Parameters to be reported	Crop Damage %, crop health , Yield , BCR
Source of funding	KVK main
Team members	SS and Head, SMS (Agronomy)

FLD No.:	**20**
Status (New proposal/2nd year /3rd year)	2nd year
Subject	Animal Science
Category:	Poultry
Crop/ enterprise:	Desi Chicken
Farming situation	Backyard Condition
Prioritized problem:	Pathogenic Bacteria in gut Challenge's health of desi chicken. Farmers not aware of gut health enhancers and not using probiotics for scavenging desi chicken at field level
Title	**Demonstration of ProBeads-EC on growth performance of Desi-chicken**
Technology to be demonstrated:	Oral administration of Probeads EC beads @ 5 beads / bird /day
Hybrid or Variety:	Desi Chicken
Source of Technology:	TANUVAS, 2020
Description	A technology to provide the enteric coated probiotics in the form of beads having enteric coated prebiotic strain @ 10^6 CFU/bead. Probead EC contains *Bacillus subtilis, Bacillus firmus, Enterococccus faecalis, Enterococcus faecium, Saccharomyces cereviciae*by using enteric coating technology, to ensure the targeted delivery of probiotics in the targeted area of action i.e., small intestine which maintains gut health in chicken by competitive exclusions of pathogenic bacteria in the intestine and improve the body weight gain. Dose is 5 beads/bird/day and can be used continuously by replacing antibiotics or other growth promoters. The application is oral route of administration. The vial has to be stored at 2- 8^{o}C (Refrigeration temperature)
Potential yield	-
Critical input, quantity and cost	Probeads EC beads (10 pack- Rs.800), Vaccine /medicine(Rs.100), Field board (Rs.200),- Rs.1100/-
Farmer's practice	Native chickens reared under backyard scavenging condition with feeding poor quality grains and use of antibiotics / traditional medicines under disease condition
Source of input	TRPVB, TANUVAS, Chennai

Photos	 
Average farmers yield	-
Season	-
No. of Demos (replications)	10
Total cost for the Demo	Rs.11,000
Parameters to be studied:	Body weight gain, Disease incidence, Net income and BCR
Parameters to be reported	Body weight gain, Disease incidence, Net income and BCR
Source of funding	SC SP
Team members	SMS (Animal Science), SMS (Agrl. Extension)

FLD No.:	**21**
Status (New proposal/2nd year /3rd year)	3rd year
Subject	Animal Science
Category:	Poultry
Crop/ enterprise:	Desi Chicken
Farming situation	Backyard Condition
Prioritized problem:	Less aware of improved native chicken breeds and poor weight gain in native chicken reared under backyard condition
Title	**Popularization of TANUVAS Aseel under backyard condition**
Technology to be demonstrated:	TANUVAS Aseel rearing under backyard condition
Hybrid or Variety:	TANUVAAS Aseel breed
Source of Technology:	TANUVAS, 2017
Description	TANUVAS Aseel, an improved native chicken with multicolor plumage, good disease resistance and adaptable to backyard condition which attains body weight of 1.0-1.2 kg at 12th week with FCR 3.5 and livability of 95%
Potential yield	-
Critical input, quantity and cost	TANUVAS Aseel chicks, Field board, 25 nos Rs.2700/-
Farmer's practice	Native chickens reared under backyard condition having low egg production, hatchability and very poor body weight gain compared to other desi chicken which provides a meager income in raising these birds. Feed conversion ratio were comparatively low than selectively raised variety of birds
Source of input	CPPM, TANUVAS- Hosur
Photos	
Average farmers yield	-
Season	-
No. of Demos (replications)	10
Total cost for the Demo	Rs.27,000
Parameters to be studied:	Body weight gain, Livability, Gross cost, gross and net income, BCR
Parameters to be reported	Body weight at 12th week, Livability, BCR
Source of funding	SC SP
Team members	SMS (Animal Science), SMS (Agrl. Extension)

FLD No.:	**22**
Status (New proposal/2nd year /3rd year)	3rd year
Subject	Animal Science
Category:	Large Ruminants
Crop/ enterprise:	Fodder crop for Dairy cattle
Farming situation	Irrigated
Prioritized problem:	Less aware of latest High yielding varieties and also less aware of balanced mixed fodder cultivation .Mono fodder cultivation mostly grasses (CO 4),
Title	**Demonstration of 10 cent Multicrop fodder production model**
Technology to be demonstrated:	Multi crop 10 cent fodder production
Hybrid or Variety:	Hybrid and variety
Source of Technology:	TANUVAS, 2019
Description	Increasing the forage production within the existing farming systems. Allocating the area under fodder production in small farm holdings – 10 cents area with grasses, cereals, legumes and tree fodders. Planting High biomass yielding grass fodders like Cumbu Napier grass variety Co(BN5) in 04 cents area. Cereals like Fodder sorghum COFS 29/31 each in 03 cents area. legumes like cowpea /Hedge Lucerne in 03 cents area. Bordering the 10 cents area with tree fodders like *Sesbania grandiflora,* Tree fodders provide feed for animals during lean periods. Able to meet the fodder requirement of dairy animals in small holdings throughout the year to maintain and improve Milk yield /lactation.
Potential yield	18 tons/ yr
Critical input, quantity and cost	Hybrid Cumbu Napier grass Co5 – 750 slips, Fodder Sorghum CoFS 31 – 250 gms, Cow pea – 200 gms, Hedge Lucerne – 250 gms, Tree fodder seeds – 100 gms and Field board, Rs.1395 /demo
Farmer's practice	Mono Fodder cultivation Any single fodder variety (CO4/COFS29) or crop residue feeding, CO4 is a grass type fodder rich in carbohydrate fed mostly by the farmers. The protein rich legume and minerals rich tree fodders normally not grown by them and the animals lack in essential nutrients expressed with poor production potential
Source of input	KVK Namakkal
Photos	

Average farmers yield	10-12 tons/yr
Season	Kharif 2022
No. of Demos (replications)	10 (0.4 ha)
Total cost for the Demo	Rs. 13950
Parameters to be studied:	Fodder yield of varieties, Milk yield (in lit), Economics and BCR
Parameters to be reported	Total fodder yield and increase in milk production
Source of funding	SC SP
Team members	SMS (Animal Science) , SMS (Agrl. Extension), SMS (Agronomy)

FLD No.:	**23**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Animal Science
Category:	Poultry
Crop/ enterprise:	Desi chicken
Farming situation	Intensive system
Prioritized problem:	Lack of awareness on improved hybrid quail
Title	**Popularization of Namakkal Gold Quail in Krishnagiri district**
Technology to be demonstrated:	Namakkal Gold quail - Improved hybrid quail with average body weight of 250gm and better disease resistance, livability of 95%
Hybrid or Variety:	Hybrid
Source of Technology:	TANUVAS, 2013
Description	Namakkal Gold quail - Improved hybrid quail with average body weight of 250gm and better disease resistance, livability of 95%
Potential yield	Average body weight – 250 gm with Livability of 95%
Critical input, quantity and cost	Namakkal Gold Quail- 75 nos , Vaccine/Medicine, Field Board, Rs.1500
Farmer's practice	Rearing of desi chicken under backyard / Semi intensive system
Source of input	TANUVAS, Namakkal
photos	 

Average farmers yield	-
Season	-
No. of Demos (replications)	10
Total cost for the Demo	Rs.15000
Parameters to be studied:	Body weight gain , Livability, Gross cost, gross and net income, BCR
Parameters to be reported	Body weight gain at 6th week, Livability, BCR
Source of funding	KVK Main
Team members	SMS (Animal science), SMS (Agrl. Extension)

FLD No.:	**24**
Status (New proposal/2nd year /3rd year)	3nd year
Subject	Home Science
Category:	Women and child
Crop/ enterprise:	Crop
Farming situation	Irrigated
Title	**Demonstration of Nutri Garden**
Technology to be demonstrated:	Organic method of cultivation ,and utilization of backyard space for growing leafy vegetables and multigreens for nutritional improvement for farm families.
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2015
Description	Demonstration of Nutrigarden through organic method and use of farmyard manure, vermi compost for the cultivation of greens, vegetables and intake of vegetables and greens for the utilization of nutritional intake
Potential yield	-
Critical input, quantity and cost	Seed kit, Seedlings, *Trichoderma virde*, Vermicompost, Grow bags, Portrays, Field Board - Rs. 1200/-
Farmers practice	-
Source of input	KVK Main
Photos	
Average farmers yield	1
Season	Rabi
No. of Demos (replications)	5
Total cost for the Demo	Rs. 6000

Parameters to be studied:	Gross cost, gross and net income, BCR
Parameters to be reported	Gross cost, gross and net income, BCR
Source of funding	SC SP
Team members	SMS (Home Science, Agronomy, Extension)

FLD No.:	**25**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Home Science
Category:	Value addition
Crop/ enterprise:	Enterprise
Farming situation	-
Prioritized problem:	Poor shelf life, low price, unawareness on processing techniques
Title	**Demonstration of palmyrah fruit value added products (Jam, RTS & Squash)**
Technology to be demonstrated:	Demonstration of palmyrah fruit value added products
Hybrid or Variety:	-
Source of Technology:	TNAU 2020
Description	The palmyrah fruit based value added products like jam, squash and RTS
Potential yield	-
Critical input, quantity and cost	Palmyrah, raw materials, packaging materials - Rs.1200
Farmers practice	-
Source of input	KVK
Photos	
Average farmers yield	1
Season	-
No. of Demos (replications)	3
Total cost for the Demo	Rs.3600
Parameters to be studied:	Gross cost, gross and net income, BCR
Parameters to be reported	Gross cost, gross and net income, BCR
Source of funding	KVK Main
Team members	SMS (Home Science, Extension)

FLD No.:	**26**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Home Science
Category:	mushroom
Crop/ enterprise:	Enterprise
Farming situation	-
Prioritized problem:	Unawareness of cultivation of new variety of mushroom to fetch better price
Title	**Demonstration of Arka Om -1 oyster mushroom variety**
Technology to be demonstrated:	Demonstration of Arka Om-1 oyster mushroom
Hybrid or Variety:	variety
Source of Technology:	IIHR 2011
Description	The cultivation of Arka Om -1 oyster mushroom variety, sterilization of paddy straw, substrate and moisture and other temperature factors for is ambient growth
Potential yield	-
Critical input, quantity and cost	Bed Spawn, Raw Materials, Packaging Materials, Field Board - Rs. 1,200/-
Farmers practice	-
Source of input	KVK
Photos	
Average farmers yield	-
Season	Rabi
No. of Demos (replications)	5
Total cost for the Demo	Rs. 6000
Parameters to be studied:	Gross cost, gross and net income, BCR
Parameters to be reported	Gross cost, gross and net income, BCR
Source of funding	KVK Main
Team members	SMS (Home Science, Horticulture)

FLD No.	**27**
Status	New proposal
Subject	Agrl. Extension
Category	Others
Crop / Enterprise	Agricultural Extension
Prioritized problem	Lack of awareness of Coconut cultivation techniques through ICT
Title	**Demonstration On android based TNAU Coconut Expert System**
Technology to be demonstrated	Installation of TNAU Mobile Apps to Coconut growers
Hybrid or Variety	-
Name of the Hybrid or Variety	-
Source of Technology	TNAU
Description	Awareness created on Coconut cultivation technology through mobile app to Coconut growers
Potential yield	-
Critical input, quantity and cost	Multicolor user guide pamphlet - 1 Number and Rs 50
Source of input	KVK
No. of Demos	50
Total cost for the Demo	Rs. 2500
Parameters to be studied	Enhancement in knowledge & Adoption Level
Source of funding	SC SP
Team members	SMS (Agrl. Extension) & SMS (Animal Science)

FLD No.	**28**
Status	New proposal
Subject	Agrl. Extension
Category	Others
Crop / Enterprise	Agricultural Extension
Prioritized problem	Lack of awareness On android based "News on AIR app"
Title	**Demonstration On android based "News on AIR app"**
Technology to be demonstrated	Installation of "News on AIR Apps" to Farmers
Hybrid or Variety	-
Name of the Hybrid or Variety	-
Source of Technology	All India Radio (2018)
Description	Awareness created on android based "News on AIR app" to farmers
Potential yield	-
Critical input, quantity and cost	Training cost - Rs. 100/-
Source of input	KVK
No. of Demos	50
Total cost for the Demo	Rs. 5000
Parameters to be studied	Enhancement in knowledge & Adoption Level
Source of funding	KVK Main
Team members	SMS (Agrl. Extension) & SMS (Animal Science)

9.3. National Food Security Mission (NFSM)

9.3.1. Cluster Frontline Demonstrations on Pulses 2022-23

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team member
Pulses	Redgram	Improper Crop Management	**ICM in Redgram**	Variety	CO 8	Tamil Nadu Agricultural University, Coimbatore, TN	CO 8 seeds	4 kg	364	50	3,600 (including contingency- 10%)	Growth parameters, Yield (q/ha), BCR	SMS (Agronomy, Soil Science and Agrl. Extension)
							Pulse wonder	2 kg	420				
							Azadiractin	1 lit.	714				
							Yellow sticky traps	10 nos	430				
							Funnel traps	8 nos	156				
							Heli-Lures	16 nos	256				
							Chlorantriniliprole	60 ml	900				
							Total		**3240**				

9.3.2. Cluster Front Line Demonstrations on Oil Seeds 2022-23

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo (Rs)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team member
Oilseeds	Groundnut	Improper Crop Management	**ICM in Groundnut**	Variety	TCGS 1043 (Dharani)	For Dharani: Acharya N.G.Ranga Agrl.University, Tirupati, AP	Dharani seeds (TCGS 1043)	50 kg	4,320	100	4,800 (including contingency - 10%)	Growth parameters, Yield (q/ha), BCR	SMS (Agronomy, Soil Science and Agrl. Extension)

10. Special Programmes 2022-23

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	IFS	Low income due to single farming system	IFS model for dryland Agriculture	TNAU	5	0.2 ha	Desi chicks (25 nos), Fodder seeds, Vermi Compost (1 Unit), Waste decomposer,	50,000	SS & Head, SMS (Agronomy, Soil Science, Animal Science, Agrl. Extn.)
2	FFS	Integrated Pest and Disease Management	ICM in Coconut	TNAU	-	1 ha	-	30,000	SS & Head, SMS (Agronomy, Soil Science, Horticulture, Agrl. Extn.)

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	Good Agricultural Practices in Mango for Domestic and Export Markets	NABARD	2021-2023	2021	No. of Programmes: 1 No. of Participants: 100	8,70,000	6,96,000	SS and Head, SMS(Agrl. Extn)
2	Organic Farming	ATMA	2022-2023	2022	No. of Programmes: 1 No. of Participants: 26	42,000	-	SS and Head, SMS (Agrl. Extn.)
3	Training on coconut climbing & pest management	Coconut Development Board	2022-2023	2022	No. of Programmes: 5 No. of Participants: 100	2,62,500	-	Prog. Assistant, SMS (Horticulture)
4	Training on Watershed Mgt. Techniques	Agricultural Engineering Department	2022-2023	2022	No. of Programmes: 4 No. of Participants: 80	2,25,000	-	Prog. Assistant, SMS (Horticulture)
5	Scientific Dairy Farming/Desi Poultry	ESAF/CSR	2022-2023	2022	No. of Programmes: 1 No. of Participants: 25	50,000	-	SMS (Animal Science) & SS and Head
6.	SPARK training on Coconut cultivation techniques	TNRTP	2022-2023	2022	No. of Programmes: 1 No. of Participants: 35	53,000	-	SS and Head, SMS (Agrl. Extn.)
7.	SPARK training on Mango cultivation techniques	TNRTP	2022-2023	2022	No. of Programmes: 1 No. of Participants: 35	53,000	-	SS and Head, SMS (Agrl. Extn.)

11.2. Project details(Use one table per project)

Funding Agency	NABARD
State/Central/Over Seas	STATE
Title	Good Agricultural Practices in Mango for Domestic and Export Markets
Objectives	To provide Hands on training method of application of bio control agents and develop the skills through demonstrations.
Study area	Krishnagiri district
Methodology	Training and Demonstration
Team Members	SS and Head, SMS (Agrl. Extn)
Budget	Rs. 8,70,000/-

Funding Agency	ATMA
State/Central/Over Seas	STATE
Title	Organic Farming
Objectives	To create awareness on organic farming production techniques.
Study area	Krishnagiri district
Methodology	Training and Demonstration
Team Members	SS and Head, SMS (Agrl. Extn)
Budget	Rs. 42,000

Funding Agency	Coconut Development Board
State/Central/Over Seas	CENTRAL
Title	**Training on coconut climbing & pest management (FoCT)**
Objectives	➢To develop a professional group of youth under the banner of "Friends of Coconut Tree" for harvesting and plant protection operations in coconut. ➢To impart training to a group of unemployed youth in developing technical skills, entrepreneurship capacity, leadership qualities and communication skills to address the needs of the coconut growers. ➢To make them self-reliant and instill confidence in undertaking the responsibility of "Friends of CoconutTree". ➢To tackle the problem of unavailability of coconut tree climbers for coconut farming and plant protection activities. ➢Generate appropriate technologies to support sustainable growth of coconut sector and generate employment opportunities for the youth.
Study area	Krishnagiri

Methodology	Training and Demonstration
Team Members	Programme Assistant (Agrl. Engg.),SS & Head, SMS(Horticulture)
Budget	**Rs. 2,62,500**

Funding Agency	Agricultural Engineering Department
State/Central/Over Seas	STATE
Title	**Watershed Management Techniques under RVP**
Objectives	To create awareness on soil and water conservation
Study area	Krishnagiri district
Methodology	Training and Exposure Visit
Team Members	Programme Assistant (Agrl. Engg.) & SMS (Horticulture)
Budget	**Rs. 2,25,000**

Funding Agency	ESAF/CSR
State/Central/Over Seas	STATE
Title	Scientific Dairy Farming / Desi Poultry
Objectives	To create awareness on scientific dairy farming / desi poultry breeding.
Study area	Krishnagiri district
Methodology	Training
Team Members	SMS (Animal Science) & SS and Head
Budget	**Rs. 50,000**

Funding Agency	TNRTP
State/Central/Over Seas	STATE
Title	SPEARK training on Coconut cultivation
Objectives	To create awareness on coconut cultivation techniques.
Study area	Krishnagiri district
Methodology	Training
Team Members	SS and Head, SMS (Agrl. Extn)
Budget	**Rs. 53,000**

Funding Agency	TNRTP
State/Central/Over Seas	STATE
Title	SPEARK training on Mango cultivation
Objectives	To create awareness on Mango cultivation techniques.
Study area	Krishnagiri district
Methodology	Training
Team Members	SS and Head, SMS (Agrl. Extn)
Budget	**Rs. 53,000**

12.Trainings planned during 2022-23

12.1. Trainings for Farmers and Farm Women planned during 2022-23

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	Low yield due to repeated cultivation of existing variety	FLD - Demonstration on Paddy variety VGD 1	Integrated crop management in paddy	2	50	SMS (Agronomy, Agrl. Extn)
2		Ragi	Low yield due to cultivation of existing variety	FLD - Demonstration on Finger millet variety ATL 1	Integrated crop management in Ragi	2	50	SMS (Agronomy, Agrl. Extn)
3		Redgram	Improper crop management, Low yield due to repeated cultivation of existing variety	OFT - Assessment of Redgram varieties for higher productivity.	Agro techniques in Redgram cultivation	2	50	SMS (Agronomy, Soil Science)
4		Sorghum	Improper crop Management	OFT - Assessment of dual purpose Sorghum varieties for higher productivity	Agro techniques in Sorghum cultivation	2	50	SMS (Agronomy, Soil Science)
5		Little millet	Improper crop management	FLD - Demonstration on Little millet ATL 1	Latest agro techniques in little millet	2	50	SMS (Agronomy, Agrl. Extn)
6		Castor	Improper crop management	FLD - Demonstration on Castor YTP 1	Latest agro techniques in Castor	2	50	SMS (Agronomy, Agrl. Extn)

7	Horticulture	Tomato	Low yield due to cultivation of existing variety	OFT –Assessment of high yielding hybrids resistant to leaf curl virus, leaf blight and wilt in Tomato	Integrated crop management in Tomato	2	50	SMS (Horticulture, Soil Science)
8		Tuberose	Improper crop management	OFT- Assessment of ICM in Tuberose	ICM in Tuberose	3	75	SMS (Horticulture, Soil Science)
9		Brinjal	Low yield and handling problem in spiny brinjal	FLD - Demonstration on Brinjal Variety VRM (Br) 2	ICM in Brinjal varaiety VRM (Br) 2	2	50	SMS (Horticulture, Agrl.Extn.)
10		Chilli	Improper crop management	FLD - Demonstration of Chilli Hybrid Arka Saanvi	ICM in Chillies	2	50	SMS (Horticulture, Agrl.Extn.)
11		French Bean	Improper crop management	FLD -Demonstration of Arka Sukomalvariety of French Bean	ICM in French Beans	3	75	SMS (Horticulture, Agrl.Extn.)
12	Soil Health and Fertility Management	Tomato	Low yield due to Improper nutrient management	OFT-Assessment on Efficiency of Bio-consortia (CSR Grow sure) in enhancing the yield in Tomato	Integrated Nutrient Management in Tomato	2	50	SMS (Soil Science, Horticulture & Agrl. Extension)
13		Paddy	Low yield due to Improper nutrient management	OFT - Assessment on Performance of different microbial consortia in Paddy	Integrated Nutrient Management in Paddy	2	50	SMS (Soil Science, Agronomy & Agrl.Extension)
14		Mango	Low yield due to Improper nutrient management	FLD - Integrated Crop Management in Mango	Integrated Nutrient Management in Mango	2	50	SMS (Soil Science, Horticulture & Agrl. Extn)

15		Banana	Low yield due to Improper nutrient management	FLD - Micro nutrient management in Banana	Integrated Nutrient Management in Banana	2	50	SMS (Soil Science, Horticulture & Agrl. Extn)
16		Coconut	Low yield due to Improper nutrient management	FLD - Integrated Nutrient Management in Coconut	Integrated Nutrient Management in Coconut	2	50	SMS (Soil Science, Horticulture & Agrl. Extn)
17		Cassava	Low yield due to Improper nutrient management	FLD - Demonstration on Foliar nutrition in Cassava	Integrated Nutrient Management in Cassava	2	50	SMS (Soil Science, Horticulture & Agrl. Extn)
18	Livestock Production and Management	Sheep and goats	Not using mineral mixture for feeding	OFT - Assessment of AFDT salt in mineralized salt lick to improve growth performance in small ruminants	Scientific Feeding management in sheep and goats	2	50	SMS (Animal Science, Agrl. Extn)
19		Dairy Cattle	Acaricidal resistance of Ectoparasites to Synthetic drugs	OFT - Assessment of Methicon spray to mitigate the acaricidal resistance of ectoparasites in dairy animals	Disease management in Dairy cattle	2	50	SMS (Animal Science, Agrl. Extension)
20		Fodder	Monofodder cultivation, Unaware of high yielding fodder varieties	FLD – Demonstration on 10 cent Multicrop fodder production model	Feed and Fodder management	2	50	SMS (Animal science, Agrl. Extn, Agronomy)
21		Poultry	Unaware of gut health enhancers and not using probiotics for scavenging desi chicken	FLD- Demonstration of ProBeads-EC on growth performance of Desi-chicken	Nutrition management in desi chicken	2	50	SMS (Animal Science, Agrl. Extn)
22		Poultry	lack of awareness on improved hybrid quail	FLD -Popularization of Namakkal Gold Quail in Krishnagiri district	Japanese quail rearing	2	50	SMS (Animal Science, Agrl. Extn)

23		Poultry	Low body weight gain in native chicken, Less aware of improved chicken varieties	FLD- Popularization of TANUVAS Aseel Chicken under backyard condition	Scientific native chicken management	2	50	SMS (Animal Science, Agrl. Extn)
24		Sheep and goats	Lack of knowledge on mineral deficiency	OFT - Assessment of AFDT salt in mineralized salt lick to improve growth performance in small ruminants	Scientific Feeding management in sheep and goats	2	50	SMS (Animal Science, Agrl. Extn)
25	Home Science/ Women empowerment	Nutrigarden	Poor consumption	FLD - Demonstration on Nutri Garden	Demonstration on Nutrigarden	2	50	SMS (Home Science & Agrl. Extn)
26		Mushroom	Low income, unawareness of new varieties	FLD - Demonstration of Arka – OM -1 Oyster Mushroom	Demonstration of Arka om-1 mushroom variety	2	50	SMS (Home Science & Agrl. Extn)
27		Millets	Poor shelf life, unutilisation and raw sales	OFT - Assessment on different dehydration techniques of Millet Papad	Preparation of dehydrated products from millets	2	50	SMS (Home Science & Agrl. Extn)
28		Guava	Perishable due to peak season	OFT - Assessment of guava preserve with different preservation techniques	Demonstration of guava preserve	2	50	SMS (Home Science & Agrl. Extn)
29		Millet	Lack of awareness in Value addition	Training	Value addition in Millet	2	50	SMS (Home Science & Agrl. Extn)
30		Palm fruit	Poor shelf life, poor unutilization	FLD - Demonstration of Palmyra value added products	Demonstration of value added products from palmyrah fruit	2	50	SMS (Home Science & Agrl. Extn)

31	Agril. Engineering	Groundnut	Unavailability of labour, timely operation & huge wages in during groundnut cultivation	Demonstration on Groundnut seed drill (ANGRAU model)	Farm Mechanization in groundnut cultivation	3	75	Prog. Asst. (Agrl. Engg.) & SMS (Soil Science)
32		Maize	Unawareness of mechanical source, huge wages and high seed rate	Demonstration on Rotary dibbler (Multi crop seed drill)	Operation & maintenance of multi crop seed drill	3	75	Prog. Asst. (Agrl. Engg.) & SMS (Horticulture)
33		Paddy	Unavailability of skilled labours, huge wages, drudgery during paddy cultivation	Demonstration on Improved Direct paddy seeder & Cono weeder	Farm Mechanization in paddy cultivation	2	50	Prog. Asst. (Agrl. Engg.) & SMS (Soil Science)
34		Water Harvesting	-	Rainwater harvesting & water conservation	Training	2	100	Prog. Asst (Agrl. Engg) & SMS (Agrl. Extn)
35		Tomato	Labour scarcity & huge wages in during vegetable planting	Demonstration on Vegetable planter (manual operated)	Usage of vegetable planter (manual operated)	2	50	Prog. Asst. (Agrl. Engg.) & SMS (Horticulture)
36	Plant Protection	Groundnut	Wild boar menace	FLD - Demonstration on management of wild boar menace using herbal repellent	Wild boar management	2	50	SS and Head, SMS Agronomy
37		Tomato	Pest and diseases	FLD - Demonstration on IPM in Tomato	Integrated pest and disease management in tomato	3	75	SS and Head, SMS (Horticulture)
38		Paddy	Pest and diseases	FLD - Demonstration on IPDM in Paddy	Integrated pest and disease management in paddy	3	75	SS and Head, SMS (Agronomy)

39		Redgram	Sterility mosaic virus incidences and root rot	OFT - Assessment of Technology modules against Red gram Sterility Mosaic virus	IPM in redgram	2	50	SS and Head, SMS (Agronomy)
40		Mango	Pest and diseases	OFT - Assessment of technology modules against mango fruit borer *Citripestis eutraphera* (Meyrick) (Pyralidae: Lepidopteara)	IPM in mango	5	100	SS and Head, SMS (Horticulture)
41	Extension	Cattle rearing	Lack of awareness on Coconut cultivation techniques	FLD – Demonstration On android based TNAU Coconut Expert System	Usage of social media for the dissemination of Coconut cultivation technologies	2	50	SMS (Agrl. Extn. & Animal Science)
42		ICT	Lack of awareness on News on AIR app for dissemination of technologies	FLD – Demonstration On android based "News on AIR app"	Usage of News on AIR app for the dissemination of technologies	2	50	SMS (Agrl. Extn. & Animal Science)
43		IFS	Lack of awareness on IFS	Training	Integrated Farming System	3	75	SMS (Agrl. Extn. & Animal Science)
44		Organic Farming	Lack of awareness on Organic Farming	Training	Organic Farming	3	75	SMS (Agrl. Extn & Agronomy)
45		Natural Farming	Lack of awareness on Natural Farming	Training	Natural Farming	2	50	SMS (Agrl. Extn & Agronomy)
	TOTAL					**101**	**2550**	

12.2. Trainings for Rural Youth planned during 2022-23

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	Tomato	Improper crop management	Training	ICM in Tomato	1	25	SMS (Hort. & Agrl. Extn.)
2	Training and pruning of orchards	Mango	Improper crop management	Training	INM and IPM in Mango	1	25	SMS (Hort. Agrl. Extn.)
3	Protected cultivation of vegetable crops	Tomato	Improper crop management	Training	ICM in Tomato	1	25	SS & Head and SMS (Horticulture, Agrl. Extn.)
4	Integrated farming	IFS	Lack of awareness on IFS	Training	Integrated farming system	1	25	SMS (Agrl Extn, Animal Science)
5	Seed production	Ragi	Improper crop management	Training	Organic seed production techniques	1	25	SMS (Agronomy, Agrl. Extn.)
6	Production of organic inputs	Composting	Lack of awareness about composting technologies	Training	Composting technologies	1	25	SMS (Soil Science, Agronomy& Agrl. Extension)
7	Vermi-culture	Vermi culture	Lack of awareness on vermi culture	Training	Vermicompost production	1	25	SMS (Agronomy & Agrl. Extn)
8	Mushroom Production	Mushroom	Lack of awareness in mushroom production	Training	Mushroom production	1	25	SMS (Home Science & Agrl. Extn)
9	Bee-keeping	Bee Keeping	Lack of awareness in bee rearing	Training	Honey Bee rearing techniques	1	25	PA (Agrl. Engg.) & SMS (Horticulture)

10	Sericulture	Mulberry	Lack of awareness in mulberry cultivation	Training	ICM in Mulberry	1	25	SS & Head and SMS (Agrl. Extn.)
11	Repair and maintenance of farm machinery and implements	Farm Mechanization	Lack of awareness on farm machineries	Training	Selection, operation and Repair & maintenance of Farm Implements	1	25	PA (Agrl Engg) and SMS (Horti)
12	Value addition	Mushroom	Low awareness	FLD	Millets value addition	1	25	SMS (Home Science)
13	Post Harvest Technology	Tamarind	Poor value addition	OFT	Guava preservation techniques	1	25	SMS (Home Science)
14	Dairying	Dairy cattle	Lack of awareness on scientific Dairy farming	Training	Scientific dairy farming	1	25	SMS (Animal science, Agrl. Extn.,)
15	Sheep and goat rearing	Goat	Lack of awareness on scientific goat farming	Training	Profitable goat farming	1	25	SMS (Animal science, Agrl. Extn.,)
16	Poultry production	Poultry	Less awareness on desi-poultry farming	FLD- Popularization of TANUVAS Aseel Chicken under backyard condition	Desi poultry farming	1	25	SMS (Animal science, Agrl. Extn.,)
17	Poultry production	Poultry	Lack of awareness on improved hybrid quail	FLD - Popularization of Namakkal Gold Quail in Krishnagiri district	Japanese quail rearing	1	25	SMS (Animal Science, Agrl. Extension)
18	Organic farming	Agrl. crops	Lack of awareness on Organic farming	Training	Organic farming	1	25	SMS (Agrl. Extn & Agronomy)
	Total					**18**	**450**	

12.3. Trainings for Extension Personnel planned during 2022-23

S. No	Thematic area	Training Course Title	No. of Courses	No. of Participants
1	Productivity enhancement in field crops	Modern package of practices in Field crop	1	20
2	Integrated Pest Management	IPM in Mango	1	20
3		IPM in Groundnut	1	20
4		IPM in Redgram	1	20
5	Integrated Nutrient management	Micronutrient Management in Field crops and Horticultural crops	1	30
6	Rejuvenation of old orchards	Rejuvenation of mango, Canopy Management in Mango	2	40
7	Protected cultivation technology	Nematode Management techniques in polyhouse	1	20
8	Gender mainstreaming through SHGs	Capacity building and gender perspectives	1	25
9	Formation and Management of SHGs	Women enterprises and skill training	1	20
10	Women and Child care	Nutrition of adolescent and mothers	1	20
11	Low cost and nutrient efficient diet designing	Supplementary foods and value addition	1	20
12	Capacity building for ICT application	Latest mobile Agri apps	1	20
13	Livestock feed and fodder production	Nutritional approaches for optimizing productivity in Livestock	1	20
14	Farm Mechanization	Farm Mechanization in Paddy cultivation	1	20
	Total		**15**	**315**

12.4. Skill trainings and vocational trainings planned during 2022-23

S. No.	Training title	Duration (Days)	No. of programmes	Sponsoring agency	Participants (Nos.)	Name of the team members
1	Nursery techniques for quality Vegetable and fruit crop seedlings production	4	1	ATARI Zone X, Hyderabad	20	SMS (Horticulture &Agrl. Extn.)
2	Composting technologies	5	1	ATARI Zone X, Hyderabad	20	SMS (Soil Science, Agronomy & Agrl. Extension)
3	Livestock based Integrated Farming System	4	1	ATARI Zone X, Hyderabad	20	SMS (Animal Science & Agrl. Extn.)
4	Selection, operation and repair & maintenance of Farm implements.	4	1	ATARI Zone X, Hyderabad	20	PA (Agrl. Engg.) & SMS (Agrl. Extension)
5	Preparation methods of Organic Inputs and its Usage on crops for sustainable yield	4	1	ATARI Zone X, Hyderabad	20	SMS (Agronomy & Soil Science)
6	Milk, poultry food products	10	1	Mahalir Thittam	20	SMS (Home Science & Agrl. Extension)
	Total Courses	**31**	**6**		**120**	

12.5. Sponsored trainings planned during 2022-23

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	Organic Farming	1 prog & 6 days	Farmers	28	Dept. of Agriculture	SMS (Agrl. Extn. Soil Science)
2	Integrated Pest Management	Vegetable and field crops	1 prog & 4 days	Farmer	500	NABARD	SS and Head, SMS (Agrl. Extn., Soil Science, Hort.)

3	Integrated Crop Management	Protected cultivation of vegetable crops	1 prog & 4 days	Rural youth	20	Dept of Horticulture and NHM	SMS (Horticulture & Agrl. Extn)
4	Integrated Nutrient Management	Integrated Nutrient Management	1 prog & 2 days	Farmers	20	ESAF	SMS (Soil Science, Horticulture & Agrl. Extension)
5	Dairy Farming	Scientific Dairy Farming	1 prog & 2 days	Farmer	20	ESAF	SMS (Animal Science & Agrl. Extn.)
6	Farm Mechanization	Usage of coconut climber	5 progs & 6 days	Rural youth	100	Coconut development board, Chennai	PA (Agrl. Engg.), SMS(Horti)
7	Soil & Water conservation	Watershed Management Techniques	4 progs & 2 days	Water shed committee members	100	Department of Agricultural Engineering, RVP, Krishnagiri	PA (Agrl. Engg.), SMS (Horti)
8	ICM - Coconut	SPARK training on Coconut cultivation techniques	1 prog & 3 days	TOT Farmer	35	TNRTP	SS and Head, SMS (Agrl. Extn.)
9	ICM - Mango	SPARK training on Mango cultivation techniques	1 prog & 3 days	TOT Farmer	35	TNRTP	SS and Head, SMS (Agrl. Extn.)
10	Coconut	Value added products in coconut	1 Prog & 15 days	SHG	30	THADCO	SS and Head, SMS (Home Science & Agrl. Extn.)

13. Extension programmes planned during 2022-23

S. No.	Extension programme	No. of programmes	No. of Participants	Team member involved
1	Advisory Services	475	475	SS and Head, SMS (Agronomy, Horticulture, Soil Science, Agrl. Extn, Animal Husbandry, Home Science), PA (Agrl. Engg.)
2	Diagnostic visits	50	100	
3	Field Day	18	360	
4	Group discussions	5	100	
5	Kisan Ghosthi	5	100	
6	Film Show	15	450	
7	Kisan Mela	1	300	
8	Exhibition	3	150	
9	Scientists' visit to farmers field	150	200	
10	Plant/Soil health/Animal health camps	3	200	
11	Ex-trainees Sammelan	5	100	
12	Farmers' seminar/workshop	1	100	
13	Method Demonstrations	25	500	
14	Celebration of important days	10	200	
15	Special day celebration	5	100	
16	Exposure visits	1	25	
17	Technology week	1	250	
18	FFS	1	30	
19	Farm innovators meet	1	20	
20	Awareness programs	10	300	
21	Lecture delivered	60	2400	
22	TV/Radio Programme	12	0	
23	News clips	20	0	
24	Popular Articles	10	0	
25	Research Article	1	0	
26	Extension Literatures	12	0	
27	Kisan Mobile Advisory Services	25	100000	
	Total	**925**	**106460**	

14. Activities proposed as Knowledge and Resource Centre during 2022-23

14.1. Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha) / number	Names of the team members involved
1	Technology Park / Crop cafeteria	Future Fruits crops	0.2 ha	SMS (Soil Science, Horticulture, Agrl. Extn.), Farm Manager
		Cafeteria of vegetable crops	0.2 ha	SMS (Horticulture, Agrl. Extn.), Farm Manager
		Intensive pepper production	1 Unit	SMS (Horticulture), Farm Manager
		Intensive Grape Production	1 Unit	SMS (Horticulture), Farm Manager
		10Cent Fodder Production Model	0.1 ha	SMS (Animal Science, Horticulture, Agrl. Extn.), Farm Manager
2	Demonstration Units	Vertical Garden	1 Unit	SMS (Horticulture), Farm Manager
		Micro irrigation systems	1 Units	SMS (Horticulture), Prog. Asst (Agrl. Engg), Farm Manager
		VAM	1 Unit	SMS (Agro), Farm Manager
		Organic Farming	1 Units (1Acre)	SMS (Agronomy, Horticulture), Farm Manager
		Mushroom Unit	1 Unit	SMS (Home Science)
		Orchard Sprayer	1 Nos	SMS (Horticulture), Prog. Asst (Agrl. Engg), Farm Manager
		Rain Water Harvesting	1 Unit	SMS (Horticulture), Prog. Asst (Agrl. Engg), Farm Manager
3	Lab Analytical services	-	-	-

14.2 Technological products planned to be produced in the KVK during 2022-23

(Seeds, planting materials, livestock, bio-inputs and other inputs)

S. No	Category	Name of the product	Quantity (q) or Nos.	Names of the team members involved
1	Seeds	Caster	4 q	SS & Head, SMS (Agronomy, Horticulture, Animal Science), Farm Manager & PA (Agrl. Engg.)
		Fodder sorghum COFS 31, 29	4 q	
		Hedge Lucerne CO 2	2 q	
		Red gram	2 q	
		Horse gram	20 q	
		Green Manure	3 q	
		Mucuna	7 q	

2	Planting materials	Banana sucker	3,000 Nos	
		Fodder slips	20,000 Nos	
		Mango seedlings	600 Nos	
		Tomato seedlings	10,000 Nos	
		Guava seedlings	300 Nos	
		Lemon seedlings	500 Nos	
		Manila tamarind	1000 Nos	
		Coconut seedlings	700 Nos	
		Melia dubia seedlings	700 Nos	
		Moringa seedlings	1,500 Nos	
		Tree seedlings	2,500 Nos	
		Papaya seedlings	300 Nos	
		Tamarind	500 Nos	
		Glyricidia seedling	1000 Nos	
		Amla seedling	150 Nos	
		Jamun seedling	150 Nos	
		Flowers crops seedling	250 Nos	
		Ornamental seedling	1000 Nos	
		Medicinal plant seedling	200 Nos	
3	Livestock	Goat + Sheep	7 Nos	SMS (Animal Science) & Farm Manager
	Poultry	Desi chicken rearing	1,000 Nos	
4	Bio products	Pheromone traps (fruit-fly)	2,000 Nos	SS & Head, SMS (Horticulture)
5	Micronutrient Mixture	Mango, Banana and Vegetable Special	1.5 tonnes	SMS (Horticulture & Soil Science)
6	Vermicompost	Vermicompost	3 tonnes	SMS (Agronomy) & Farm Manager
7	Home care products	Ready to eat products	200 Kg	SMS (Home Science)

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	Integrated Pest Management in Maize	SS and Head, SMS (Agronomy & Agrl. Extn.)
		Integrated Crop Management in Groundnut	
2	Horticulture	IPM in mango	SS and Head, SMS (Horticulture, Agrl. Extn.)
		Protected cultivation of Cut-flowers	
		IPM in vegetables	
		INM in mango	SS and Head SMS (Soil Science, Agrl. Extn)
		INM in Vegetables	

S. No	Category	Technological capsules / number	Names of the team members involved
3	Agricultural Engineering	Farm Mechanization in paddy	SS and Head, SMS (Horticulture) and PA (Agrl. Engg.),
		Capacity building on Watershed management	
4	Literature / Publication	Technological booklets on ICM, IPM, INM for paddy, Groundnut, Redgram, mango & vegetables and vaccination & Mastitis control.	SS and Head, SMS (Agrl. Extn, Agronomy, Horticulture, Animal Science, Soil Science, Home Science) and PA (Agrl. Engg.)
5	Kisan Mobile Advisory Services	1,00,000 nos.	
6	Information on center / state sector schemes & service providers in the district	➢ GOI schemes: ➢ National mission on Oil seed & oil palm ➢ National food security mission (Pulses) ➢ National mission on sustainable agriculture ➢ Coconut development board	SS and Head, SMS (Agronomy, Horticulture, Animal Science, Soil Science, Home Science, Agrl. Extn) and PA (Agrl. Engg.)

14.3.2. Publications planned

S. No	Category of publication	Number	Names of the team members involved
1	Booklet	2	SS and Head, SMS (Agronomy, Horticulture, Soil Science, Agrl. Extn, Animal Husbandry, Home Science), PA (Agrl. Engg.), Farm Manager & Steno
2	Leaflet & Pamphlet	12	
3	Newsletter	4	

15.Additional (Collaborative) Activities Planned during 2022-23

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	Training and ICM	Good Agricultural Practices in Mango for Domestic and Export Markets	8,70,000	SS and Head, SMS (Agrl. Extn)
2	ATMA	Training	Organic Farming	42,000	SS and Head, SMS (Agrl. Extn.)
3	Coconut Development Board	Training on coconut climbing & pest management	Coconut tree climbing, Root feeding, identifications pests and diseases	2,62,500	Prog. Assistant, SMS (Horticulture)
4	Agricultural Engineering Dept	Training on Watershed Mgt. Techniques	Soil & Water conservation	2,00,000	Prog. Assistant, SMS (Horticulture)
5	ESAF/CSR	Training	Scientific Dairy Farming/Desi Poultry	50,000	SMS (Animal Science) & SS and Head
6	TNRTP	Training	Coconut cultivation techniques	53,000	SS and Head, SMS (Agrl. Extn)
7	TNRTP	Training	Mango cultivation techniques	53,000	SS and Head, SMS (Agrl. Extn)

16. Revolving Fund

16.1. Status of Revolving fund

Opening balance as on 01.04.2021 (Rs.)	Receipts during 2021-22 (Rs)	Expenditure incurred during 2021-22 (Rs.)	Closing balance as on 31.03.2022 (Rs.)
11,22,652	25,31,118	16,09,745	20,44,025

16.2. Plan of activities under Revolving Fund during 2022-23

S. No	Proposed activities	Expected output	Anticipated income(Rs.)	Name of the team member involved
1	Seed	42 Qtl	1,00,000	SMS (Agronomy, Horticulture, Animal Science) and Farm Manager
2	Seedlings (Vegetables, flowers, fruits and trees, Pulses, Fodder, Cereals & Millets)	45,000 nos	1,00,000	
3	Production of fruit fly traps	2,000	1,60,000	SS and Head, SMS (Horticulture) and Farm Manager
4	Macro Banana Propagation	1,000	10,000	

5	Production of Micro Nutrient mixture for mango, Vegetables & Banana	1.5 tonnes	2,00,000	SS and Head, SMS (Soil Science) and Prog. Assistant
6	Fruit squashes, preserves	100 lits.	10,000	SMS (Home science, Horticulture)
7	Goat rearing	3 nos	15,000	SMS (Animal Science) & Farm Manager
8	Desi Chicken rearing	1000 nos	60,000	SMS (Animal Science) & Farm Manager
9	Sheep rearing	4 nos	20,000	
10	Vermi compost production	3 tons	25,000	SMS (Agronomy), Farm Manager

17Activities of soil, water and plant testing laboratory during 2022-23

S. No.	Type	Through	No. of samples	No of soil health cards	Names of the team members involved
1	Soil	Mini soil testing lab	300	300	SMS (Soil Science) & PA (Agrl. Engg.)
		Traditional lab	-	-	-
		AAS	-	-	-
2	Water		-		-
3	Plant		-		-

18. Plan of activity for Institutional Farm

S. No	Activity	Area (ha)	Names of the team members involved
1	Banana	1.2 ha	SS and Head, Farm Manager, SMS (Agronomy, Horticulture, Animal Science)
2	Caster	1.0 ha	
3	Fodder sorghum	0.4 ha	
4	Redgram	0.8 ha	
5	Hedge Lucerne	0.4 ha	
6	Green Manure	0.8 ha	
7	Fodder slips	0.4 ha	
8	Mixed Fodder	0.8 ha	
9	Horse gram	4.0 ha	
10	Nursery Production	1.0 ha	

19.Demonstration units in KVK premises

S. No	Name of Demo unit	Capacity for production (specify units)	Names of the team members involved
1	Mango-Ultra High-Density Plantation (100 plants)	500 kg	SS and Head, Farm Manager, SMS (Agronomy, Horticulture, Animal Science, Soil Science, Agrl. Extension) & PA (Agrl. Engg.)
2	Amla-High Density Plantation (100 plants)	600 kg	
3	Custard Apple-High Density Plantation (40 plants)	50 kg	
4	Jamun-High Density Plantation	-	
5	Citrus-Mother Plants	500 seedlings	
6	Vermicompost	3 tonnes	
7	Slatted Floor Goat Rearing	3 nos	
8	Azolla Production Unit	50 kg	
9	Poultry Unit	1000 nos	
10	Honeybee Rearing	-	
11	Sheep rearing	4 nos	
12	Banana Macro Propagation	1000 nos	

20. E-linkage activities status / proposed during 2022-23

Activity	Particulars	No. of farmers in database/ involved in activity
Website	Link: krishnagirikvk.org	**2779**
Mobile App	Name and link: -	-
ICT initiative	-	-
KVK portal (update status)	Infrastructure details & photos uploaded (no): **10** Events uploaded: **1759** News items submitted: **1759**	-
KVK mobile App of ICAR	Downloaded and used by scientists (no.)	**13**
Other mobile Apps in use by KVK	Uzhavan App, TNAU Mobile App - Paddy, Banana, Coconut, Cattle Export System, Sugarcane, Ragi.	**13**
mKisan of DAC & FW	-	**1,00,000**
Social media		
a) WhatsApp groups	No. of groups/KVK: 4	**800**
b) Facebook	Link:facebook.com/kvk.krishnagiri	Followed by **567 people;** Friends: **121;**
c) Twitter	Handle name: @IcarKendra	**298 Followers;**
Membership / participation in online digital platforms	-	-
KVK Blogs etc.	-	-
Collaboration with public/ private firms for audio/ video conferencing etc	Agency: - MoU (yes/no): - No. of programs done: -	-

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	Integrated Crop Management	ICM in Coconut	30	0.3

Details of FFS

1.	**Period**	**:**	July 2022
2.	**No. of Session**	**:**	14
3.	**Name of the village**	**:**	Arasampatti
4.	**No. of participants**	**:**	30
5.	**Name of the Facilitators**	**:**	Senior Scientist and Head, SMS (Agronomy) & SMS (Agrl. Extension)
6.	**Area of the FFS field**	**:**	1 ha
7.	**Name of the collaborator**	**:**	Mr. Chakkravarthi
8.	**Major problems in the FFS village relevant to the crop/enterprise**	**:**	Weed infestation
			Nutrient management
			Pest & Disease
9.	**Objectives of the FFS**	**:**	**To grow healthy crop**
			To conserve natural enemies
			Surveillance
			To farmers become experts
10.	**Guest Faculty to be involved**	**:**	Assistant Director of Agriculture, Innovative farmer

11. FFS Curriculum of Coconut Crop – model

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	Soil sample collection method	-
LTE		-	-
SS		Short studies on Soil profile study, soil erosion, soil sampling	Advantages of*Pseudomonas fluorescens*
ST			EFYM preparation
Others		BBE	Soil Test result sharing, Water holding

			capacity and organic manure
GD	Entry point activity – Signs and symptoms	Sub group formation	Chaining
Activity	**Session-4**	**Session-5**	**Session-6**
FA	Planting techniques, Paring and prolinage	Weed identification in main field	AES concept and transplanting seedling to main field
LTE	Finalizing LTEs	-	LTE observation
SS	Composting techniques	Main field preparation and planting techniques	Plant nutrient uptake studies and male annihilation technologies
ST	Weed management	Advantages of green manures	Living soil, weed management in main field
Others	-	-	-
GD	Longest line	Water brigade	Pen in Bottle
Activity	**Session-7**	**Session-8**	**Session-9**
FA	AESA	AESA	AESA
LTE	--	--	--
SS	Mulching techniques and bio agents	Nutrition application, parasites and predators	IPM, identification of harmful and useful insects
ST	Implements for weeding	Insect Zoo	Deficiency symptoms and importance of micronutrients
Others	-	Azolla production, Fodder production	Observations on biomass production in Azolla Mushroom production with various substrates
GD	Listening, seeing and sensing	Tower building	Broken squares
Activity	**Session-10**	**Session-11**	**Session-12**
FA	AESA	AESA	AESA
LTE	LTE observation	--	--
SS	Foliar nutrition		Vermi composting methods
ST	Pest and Disease management		Marketing options
Others		Observations on mushroom production	Biomass estimation of trees
GD	Inheritance	Occupation game	Nine dot game
Activity	**Session-13**	**Session-14**	**Session-15**
FA	AESA Sequential crops	AESA	Field Day
LTE	--	--	

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

12. Budget

S. No	Particulars	Amount (Rs.)
1	Refreshment @ Rs.20/ -trainees for 14 classes (30*20*14)	8,400
2	Expenditure on POL	2,500
3	Contingent expenditure, Banner and refreshment for inaugural function of FFS	1,800
4	Distribution of Cost of training materials including IPM kit @ Rs150/kit = Rs.4500 Cost of bio pesticides, emergency spray, other relevant training materials = Rs.4500	9,000
5	Distribution of IPM literature for 30 trainees @ Rs.100/trainees	3,000
6	Farmers field day(one day)miscellaneous contingent including refreshment	2,300
7	Honorarium for two facilitators/trainers@Rs.1500/each for complete season	3,000
TOTAL		**30,000**

22. Details of Innovative Farmers network established : Nil

23.Budget - Details of budget utilization (2021) up to31March 2022 (Rs.)

S. No	Particulars	Sanctioned Grant for 2021-22	Released for 2021-22	Expenditure for the period from 1-4-2021 to 31-3-2022
A	**RECURRING**			
1	**Pay & Allowances**	1,75,23,701	1,75,23,701	1,75,23,132
2	**Travelling Allowances**	1,40,000	1,40,000	1,44,626
	a) Field activities & programmes			
	b) Training programmes			
3	**Contingencies**			
A	***Office Contingencies***	5,50,000	5,50,000	5,50,052
B	***Technical Programmes including TSP/ SCSP***	11,41,000	11,41,000	11,41,106
	Total of Contingencies	**16,91,000**	**16,91,000**	**16,91,158**
	Sub Total of Recurring Items (1+2+3)	**1,93,54,701**	**1,93,54,701**	**1,93,58,916**
4	**NON-RECURRING CONTINGENCIES:**			
	Works	0	0	0
	Furniture& Equipment	1,00,000	1,00,000	1,00,591
	Vehicle	0	0	0
	TSP (creation of physical assets)	0	0	0
	SCSP Component (Creation of Physical assets)	3,65,000	3,65,000	3,68,171
	Sub Total of non-recurring Items (4)	**4,65,000**	**4,65,000**	**4,68,762**
5	**GRAND TOTAL**	**1,98,19,701**	**1,98,19,701**	**1,98,27,678**

24. Details of Budget Estimate (2022-23) based on proposed action plan

S. No	Particulars	Budget Estimate for 2022-23
A	**RECURRING ITEMS**	
1	**Pay & Allowances**	**211.25**
2	**Travelling Allowances**	**2.5**
a	Field activities & programmes	
b	Training programmes	
3	**Contingencies**	
	Office Contingencies	
a	Stationery, telephone, stamps and other expenditure on office running	6.50
b	POL, repair of vehicles, tractor and equipment including hiring of vehicle	
4	**Technical Programmes**	**15.00**
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)	
l	Soil Health Card (SHC)	
m	Website/mobile app etc.	
	Total of Contingencies	**21.50**
	Total of Recurring Items	**235.25**
B	**NON-RECURRING ITEMS:**	
a	Works	-
b	Vehicle (Jeep/Tractor/2 Wheeler)	-
c	Furniture	2.00
d	TSP (creation of physical assets)	-
e	SCSP Component (Creation of Physical assets)	4.00
	Total of Non-Recurring Items	**6.00**
	GRAND TOTAL (A+B)	**241.25**

Signature of the Senior Scientist and Head of the KVK

Forwarded **Verified** **Approved**

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