TAMIL NADU DR.J.JAYALALITHAA FISHERIES UNIVERSITY

Annual Action Plan 2022-23

ICAR-KRISHI VIGYAN KENDRA

Sikkal-611 108

Nagapattinam Dt.

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-KVK, Nagapattinam
Address	ICAR-Krishi Vigyan Kendra, Sikkal – 611 108. Nagapattinam District.
Phone	04365-299806
Fax	-
e-mail	kvksikkal@tnfu.ac.in
1.2. Name of host organization	Tamil Nadu Dr. J. Jayalalithaa Fisheries University
Address	Tamil Nadu Dr. J. Jayalalithaa Fisheries University Vettar River View Campus, Nagapattinam – 611 002.
Phone	04365- 241444
e-mail	info@tnjfu.ac.in
1.3. Year of sanction	2004
1.4. Website of the KVK	www.Kvknagapattinam.co.in
Date of last update	21.03.2022

1.5. District map with location of the KVK

GPS reading of the Entrance of KVK: Lat: 10.758078, Long: 79.794666

2. Details of staff as on date

S. No.	Sanctioned post	Name	Discipline	Date of joining	Present pay scale
1	Senior Scientist & Head/ Programme Coordinator	Dr.A.Gopalakannan	Fisheries Biotechnology	04.03.2019	139400
2	SMS1	Mr. E. Hino Fernando	Fisheries Extension	03.12.2018	61300
3	SMS 2	Dr. K. Chandrasekar	Agriculture Entomology	06.12.2018	61300
4	SMS 3	Dr. S. Muthukumar	Veterinary Science	28.12.2018	57800
5	SMS 4	Dr.V.Kannan	Agronomy	13.06.2019	59500
6	SMS 5	Dr.A.Mathivanan	Fish Processing Technology	14.06.2019	57800
7	SMS 6	Mr.K.Ragu	Horticulture	17.07.2019	59500
8	Programme Assistant/T4-1	Mr. V. Gnanabharathi	Agriculture	05.06.2007	61000
9	Programme Assistant/T4-2	Ms. G. Ramya	Computer Application	07.12.2018	36500
10	Farm Manager/T4	Mr. R. Vedharethinam	Agronomy	04.06.2007	61000
11	Administrative Staff 1 (Assistant)	Mr. S. Tamilselvan	Office	05.06.2018	27700
12	Administrative Staff 2 (Stenographer Grade III)	Vacant	-	-	-
13	Driver/T1 - 1	Mr. S. Prasanth	Driver	07.12.2018	20300
14	Driver/T1 - 2	Mr. J. Sathishkumar	Driver	07.12.2018	20300
15	Supporting Staff 1	Vacant	-	-	-
16	Supporting Staff 2	Vacant	-	-	-

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

Date(s) of SAC meeting(s) Conducted: 9th SAC meeting conducted on 22.03.2022

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

S.No.	Suggestions/Recommendations (bullet points)	Name of the SAC Member	Action Taken in brief
1	Fish Culture OFT needs to be carried out	Dr.G.Sugumar, Vice Chancellor, TNJFU, Nagapattinam	To be taken in the year 2022-23
2	Android App for fisheries technology needs to be popularized	Dr.G.Sugumar, Vice Chancellor, TNJFU, Nagapainam	To be taken in the year 2022-23
3	Short duration Rice variety needs to be popularized	Dr.R.Chandrsekaran, SO, AC&RI, Kilvelur	To be taken in the year 2022-23
4	Rice Fallow Blackgram ADT 7 variety needs to be popularized	Dr.R.Chandrsekaran, Special Officer , AC&RI, Kilvelur	To be taken in the year 2022-23
5	Alternate crop Maize needs to be popularized	Dr.R.Chandrsekaran, Special Officer , AC&RI, Kilvelur	To be taken in the year 2022-23
6	Organic farming technologies needs	Dr.R.Chandrsekaran,	To be taken in the year

	to be popularized	Special Officer , AC&RI, Kilvelur	2022-23
7	Rice Fallow Blackgram ADT 7 variety needs to be popularized	Dr.R.Manimaran, Associate professor, TRRI, Aduthurai.	To be taken in the year 2022-23
8	New variety Blackgram VBN 9, VBN 11 needs to be popularized	Dr.R.Manimaran, Associate professor, TRRI, Aduthurai.	To be taken in the year 2022-23
9	Seed drill for Pulses after combined harvest of Paddy	Dr.R.Manimaran, Associate professor, TRRI, Aduthurai.	To be taken in the year 2022-23
10	Alternate crop with horticulture needs to be popularized	Dr.V.Sundharam, Professor(Horticulture) PAJANCOA&RI, Karaikkal	To be taken in the year 2022-23
11	IIHR hybrid vegetables needs to be popularized to farmers	Dr.V.Sundharam, Professor(Horticulture) PAJANCOA&RI, Karaikkal	To be taken in the year 2022-23
12	Farm Mechanization for horticulture cultivation needs to be demonstrated	Dr.V.Sundharam, Professor(Horticulture) PAJANCoA & RI, Karaikkal	To be taken in the year 2022-23
13	Coconut Rugose Spiraling Whitefly management technology need to be popularized	Dr.V.Sundharam, Professor(Horticulture) PAJANCOA&RI, Karaikkal	To be taken in the year 2022-23
14	Fish waste manure production needs to be trained	Dr.V.Sundharam, Professor (Horticulture) PAJANCOA&RI, Karaikkal	To be taken in the year 2022-23
15	Fish-Duck-paddy cultivation needs to be popularized	Dr.M.Kathirselvan, Head, FTC, VUTRC, Thiruvarur	To be taken in the year 2022-23
16	Weed management for direct sown rice needs to be demonstrated	Mr.G.Jeevantham, Farmer Member, Nangudi, Kilvelur	To be taken in the year 2022-23
17	Health tonic for goat kids needs to be demonstrated	Mr.G.Jeevantham, Farmer Member, Nangudi, Kilvelur	To be taken in the year 2022-23
18	Vegetable seedling production and sale at KVK needs to be carried out	Mr.G.Jeevantham, Farmer Member, Nangudi, Kilvelur	To be taken in the year 2022-23
19	Collection of honey from bee hives and tools for honey collection needs to be demonstrated	Mr.G.Jeevantham, Farmer Member, Nangudi, Kilvelur	To be taken in the year 2022-23
20	Mechanical harvest for Groundnut needs to be popularized	Mr.K.Mariyappan, Farmer Member Koilpathu, Thalainayar block	To be taken in the year 2022-23
21	Mulberry cultivation for silk worm rearing needs to be encouraged among the farmers	Mr.K.Mariyappan, Farmer Member Koilpathu, Thalainayar block	To be taken in the year 2022-23
22	Training of Value addition from groundnut needs to be given	Mr.K.Mariyappan, Farmer Member	To be taken in the year 2022-23

		Koilpathu, Thalainayar	
23	Coconut Rugose Spiraling Whitefly management technology need to be popularized	Mr.P.Pakkrisamy, Farmer Member, Puliyur, Nagapattinam	To be taken in the year 2022-23
24	Grafting Brinjal cultivation needs to be demonstrated	Dr.R.Dhivya, Asst. Director Horticulture , Nagapattinam	To be taken in the year 2022-23
25	Marigold and hybrid variety introduction needs to be popularized	Dr.R.Dhivya, Asst. Director Horticulture , Nagapattinam	To be taken in the year 2022-23
26	Dragon fruit and Coccinia vegetable needs to be popularized	Dr.R.Dhivya, Asst. Director Horticulture , Nagapattinam	To be taken in the year 2022-23
27	Mulberry Seedling production at KVK needs to be done	Mrs. Shanthi, Inspector, Department of Sericulture, Thiruvarur Dt.	To be taken in the year 2022-23
28	Training on mulberry cultivation and silk worm rearing needs to be given	Mrs. S.Shanthi, Inspector, Department of Sericulture, Thiruvarur Dt.	To be taken in the year 2022-23
29	Fish culture training and Fish farmers group farming needs to be carried out	Mr.D.Karthikeyan, Fisheries Inspector, Department Fisheries, Nagapattinam	To be taken in the year 2022-23
30	Brooding for Goat Kid needs to be popularized	Dr.C.Suresh, Head, VUTRC, TANUVAS, Nagapattinam	To be taken in the year 2022-23
31	Training on Kitchen gardening and vegetable cultivation for livelihood of destitute girls and Women needs to be given	Mrs. S.Ilavarasi, Administrator, Integrated Service Centre, Social welfare Department, Nagapattinam	To be taken in the year 2022-23
32	Training on Goat management for rainy season needs to be given	Asst. Director, Department of Animal Husbandry, Nagapattinam	To be taken in the year 2022-23
33	Training on Feeding of mulberry for goat needs to be given	Asst. Director, Department of Animal Husbandry, Nagapattinam	To be taken in the year 2022-23
34	Vegetable cowpea needs to be popularized	Dr.V.Sundharam, Professor(Horticulture) PAJANCOA&RI, Karaikkal	To be taken in the year 2022-23
35	Obtained of Scheme from CDB for Coconut Nursery production at KVK	Dr.V.Sundharam, Professor(Horticulture) PAJANCOA&RI, Karaikal	To be taken in the year 2022-23

36	Fodder bank needs to be established at KVK	Dr.R.Chandrsekaran, Special Officer , AC&RI, Kilvelur	To be taken in the year 2022-23
37	Drone application for agriculture operations needs to be demonstrated	Dr.M. Rajakumar, DEE, TNJFU, Nagapattinam	To be taken in the year 2022-23
38	Miyawaki –Dense forest model needs to be established at KVK	Dr.M. Rajakumar, DEE, TNJFU, Nagapattinam	To be taken in the year 2022-23
39	Vegetable seed pocket purchase and sale to farmers need to be done at KVK	Dr.M. Rajakumar, DEE, TNJFU, Nagapattinam	To be taken in the year 2022-23

Proposed date/month of SAC Meeting to be held in 2022-23: February 2023

4.0 Capacity Building activities planned for KVK Staff

Annual training plan (ATP) to be prepared by each KVK for its HRD of 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. V. KANNAN	Microbiology	Integrated Soil Nutrient and Rhizosphere Management	5 days	06.06.2022 to 10.06.2022
2	Dr.V.Kannan, SMS (Agronomy)	Agro forestry for sustainable income	IFGTB, Coimbatore	3days	4.10.2021-6.10.2021
3	Dr.K.Chandrasekar	Mushroom Spawn production technology	Directorate of Mushroom Research	3 days	28.07.2022 to 30.07.2022
4	Dr.K.Chandrasekar	Plant Protection Techniques for Plant health management	NIPHM	21 days	02.12.2022 to 22.12.2022
5	Mr.K.Ragu, SMS(Horticulture)	Mushroom Production technologies	IIHR, Bangaluru	5 days	Jan-2021
6	Mr.K.Ragu, SMS(Horticulture)	Recent advances in Horticulture	IIHR, Bangaluru	5 days	-
7	Dr. S. Muthukumar	Latest Feed technology in livestock and poultry rearing	NDRI, Karnal	10 days	Based on the Training calendar of Institute
8	Dr. S. Muthukumar	Latest Feed technology in livestock and poultry rearing	NIANP, Bengaluru	21 days	Based on the Training calendar of Institute
9	Dr.A.Mathivanan, SMS (Fish	Processing and Value addition of Fruits and	CFTRI	5 days	-

	Processing Tech.)	Vegetables			
10	Dr.A.Mathivanan, SMS (Fish Processing Tech.)	Baking Technology	CFTRI	7 days	-
11	Dr.A.Mathivanan, SMS (Fish Processing Tech.)	Value addition of seasonal fruits	NIFTEM, Thanjavur	1 day	06 June 2022
12	Dr.A.Mathivanan, SMS (Fish Processing Tech.)	Nutri-Cereal Process & Products Technology	CFTRI	5 days	04 - 08, July 2022
13	Dr.A.Mathivanan, SMS (Fish Processing Tech.)	Baking Science & Technology	CFTRI	5 days	11 - 15, July 2022
14	Dr.A.Mathivanan, SMS (Fish Processing Tech.)	Paddy & Rice Processing and Products	CFTRI	5 days	10 - 14, Oct 2022
15	Dr.A.Mathivanan, SMS (Fish Processing Tech.)	Grain Process & Products for health & Wellness	CFTRI	5 days	21 - 25, Nov 2022
16	E. Hino Fernando, SMS(Fisheries Extension)	Managerial Skills for Extension Professionals	MANAGE	3 DAYS	26.04.22 to 28.04.22

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	Aqua culture and Fish Value addition	KVK, Thiruvarur, KVK, Ariyalur	To learn about technological products & To learn about IFS	KVK, Thiruvannamalai
2	Animal Husbandry and Livestock production management	KVK, Namakkal, KVK, Chengalpattu	Animal Husbandry and Livestock production management	KVK, Namakkal, KVK, Chengalpattu
3	Mushroom production and Honey bee	KVK, Madurai	Exposure visit/ Training/Demonstration – Farm mechanization	KVK, Namakkal, KVK, Chengalpattu
4	IFS technology	KVK, Namakkal,	Intensive Groundnut cultivation	KVK, Viluppuram

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*
Nagapattinam block	Rice, Pulses, Livestock, Fisheries and Value addition	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New Variety Lack of scientific knowledge on feeding and management, poor growth performances High infestation of rice ear head bug Poor yield. Lack of awareness on IPM. Lack of awareness of value added fishery products. Low income of women and rural youth entrepreneurs. Lack of knowledge, poor performance of existing variety. Lack of /less popularization of Fish Wafers although huge demand in market.	-	Ponveli	OFT-Assessment of Nano Urea fertilizer for Rice productivity improvement. FLD-Demonstration of Newly released Rice variety ADT 57 FLD-Demonstration of Long duration Rice variety ADT 52 OFT-Assessment of feed supplementation to improve production in Goat OFT-Assessing the Botanical Pest Management practices against Rice Ear head bug in Rice OFT-Assessment of different methods of Fish Cutlets preparation and their Quality Evaluation OFT-Assessment of different methods of Fish Rolls preparation and their Quality Evaluation FLD-Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district FLD-Demonstration of Fish Wafers Production
Nagapattinam block	Rice, Pulses, Livestock, Fisheries and Value	Lack of awareness of value added fishery products. Low income of women and rural youth entrepreneurs. Lack of knowledge of method of Mango RTS preparation	-	Mozhithidal	OFT-Assessment of different methods of Fish Rolls preparation and their Quality Evaluation FLD-Demonstration of Mango RTS Beverage Production Special programme - EDP through value addition in Fish cutlet

Nagapattinam block	Rice, Pulses and Livestock, Fisheries and Value addition	High infestation of rice ear head bug Poor yield. Lack of awareness on IPM. Lack of awareness of value added fishery products. Low income of women and rural youth entrepreneurs.	-	Sikkal	OFT-Assessing the Botanical Pest Management practices against Rice Ear head bug in Rice OFT-Assessment of different methods of Fish Cutlets preparation and their Quality Evaluation
Nagapattinam block	Rice, Pulses, Livestock, Fisheries and Value addition	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New Variety	Black gram and Green gram cultivation area in the district 69943 ha	Puliyur	OFT-Assessment of Nano Urea fertilizer for Rice productivity improvement FLD-Demonstration of suitable Rice fallow Black gram VBN 9
Nagapattinam block	Livestock, Fisheries and Value addition	Lack of /less popularization of Fish Wafers although huge demand in market.	-	Keechankuppam	FLD-Demonstration of Fish Wafers Production
Nagapattinam block	Vegetables, Livestock, Fisheries and Value addition	Lack of awareness on mobile app for fisheries technology	-	Paravai	FLD-Demonstration of Mobile App for fish farming
Nagapattinam block	Rice, Pulses and Livestock, Fisheries	Majority of freshwater fish farmers have little knowledge on water quality management in fish culture which results in less production.	388 ha in the district using farm ponds.	Sembiyanmadevi	OFT-Assessment of Zeolite and Biochar to improve fish production
Nagapattinam block	Rice, Pulses and Livestock, Fisheries and Value addition	Low yield of existing local varieties and unawareness of New Variety	-	Agalangan	FLD-Demonstration of Long duration Rice variety ADT 52
Nagapattinam block	Vegetables, Groundnut, Coconut, Mango	Cultivation of local variety exhibits smaller size fruits, immature fruit drop which in turn resulted low yield. Yield loss due to high pest and disease incidence	Vegetable cultivation 579 ha	Kameshwaram	OFT-Assessment of Bottle gourd hybrids for yield and market preference. FLD-Demonstration of Brinjal VRM 2 variety for Nagapattinam district.
Nagapattinam block	Vegetables, Groundnut, Coconut, Mango, Fisheries	Cultivation of local variety exhibits smaller size fruits, immature fruit drop which in turn resulted low yield.	Vegetable cultivation 579 ha	Thenpathi	OFT-Assessment of Bottle gourd hybrids for yield and market preference

Nagapattinam block	Vegetables, Groundnut, Coconut, Mango	Yield loss due to pest and disease management	Vegetable cultivation 579 ha	N.P. Nallur	FLD-Demonstration of IIHR Seed pro- (A microbial plant growth promoter and fungal disease suppressor) for increasing growth and yield in Brinjal.
Thirumarugal block	Rice, Pulses and Livestock, Fisheries and Value addition	Low yield of existing local varieties and unawareness of New Variety	Black gram and Green gram cultivation area in the district 69943 ha	Melapoothanur	FLD-Demonstration of suitable Rice fallow Black gram VBN 9
Thirumarugal block	Rice, Pulses, Cotton, Livestock, Fisheries	Low yield of existing local varieties and unawareness of New Variety	Black gram and Green gram cultivation area in the district 69943 ha	Kongarayanallur	FLD-Demonstration of suitable Rice fallow Black gram VBN 9
Thirumarugal block	Rice, Pulses and Livestock, Fisheries and Value addition	Lack of carp polyculture practices. Low yield in carp culture. Lack of scientific fish culture methods	388 ha in the district using farm ponds.	Keelapoothanur	OFT-Growth assessment of incorporation of murrel with Indian major carps polyculture system
Kilvelur block	Rice, Pulses and Livestock, Fisheries	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New Variety Non adoption of IPM practices, high infestation of viral disease and sucking pests Lack of carp polyculture practices. Low yield in carp culture. Lack of scientific fish culture methods Lack of feeding practice fishes. Unawareness on preparation of farm made feed	Black gram and Green gram cultivation area in the district 69943 ha 388 ha in the district using farm ponds.	Agarakadambanur	OFT-Assessment of Nano Urea fertilizer for Rice productivity improvement FLD-Demonstration of Newly released Rice variety ADT 57 FLD-Demonstration of Long duration Rice variety ADT 52 FLD-Demonstration of suitable Rice fallow Black gram VBN 9 FLD-Demonstration on IPM against Viral diseases of Black gram – Pesticide application will be done through Drone Technology OFT-Growth assessment of incorporation of murrel with Indian major carps polyculture system FLD-Demonstration of low cost balanced farm made fish feed

Kilvelur block	Rice, Pulses and Livestock, Fisheries	Lack of feeding practice fishes. Unawareness on preparation of farm made feed Farmers have little knowledge on water quality management in fish culture leads less production.	388 ha in the district using farm ponds.	Radhamangalam	FLD-Demonstration of low cost balanced farm made fish feed OFT-Assessment of Zeolite and Biochar to improve fish production
Keelaiyur block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Farmers are lack awareness on IPDM and bio control methods	Groundnut area in the District is 2623 ha. Vegetable cultivation 579 ha	Vettaikaran iruppu	FLD-Integrated Pest and Disease Management in Groundnut FLD-Demonstration of IPDM in Snake gourd
Keelaiyur block	Rice, Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Cultivation of local variety exhibits smaller size fruits, immature fruit drop which in turn resulted low yield.	Vegetable cultivation 579 ha	Kiramathumedu	OFT-Assessment of Bottle gourd hybrids for yield and market preference
Keelaiyur block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Yield loss due to high pest and disease incidence	Vegetable cultivation 579 ha	Vizhunthamavadi	FLD-Demonstration of Brinjal VRM 2 variety for Nagapattinam district.
Keelaiyur block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Yield loss due to pest and disease management	Vegetable cultivation 579 ha	P.R.Puram	FLD-Demonstration of IIHR Seed pro- (A microbial plant growth promoter and fungal disease suppressor) for increasing growth and yield in Brinjal.
Keelaiyur block	Rice, Vegetables, Livestock, Fisheries	Lack of /less popularization of Fish Wafers although huge demand in market. Lack of knowledge of value addition in Fish cutlet	-	Seruthur	FLD-Demonstration of Fish Wafers Production. Special programme - EDP through value addition in Fish cutlet

Thalainayar block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Farmers are lack awareness on IPDM and bio control methods Non availability of improved hybrid	Groundnut cultivated area in the dt.-2623ha. Vegetable cultivation 579 ha	Vellappallam	FLD-Integrated Pest and Disease Management in Groundnut. FLD-Demonstration of IPDM in Snake gourd FLD-Demonstration of Chilli Arka Khayti hybrid for Nagapattinam district.
Thalainayar block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Major variety is G7- susceptible to water stress, *Helicoverpa*, dry root rot, late leaf spot and rust; Farmers are lack awareness on IPDM and bio control methods Lack of knowledge of method of Mango RTS preparation Coastal ecosystems are characterized by sea water intrusion, low lying water logged areas, flood prone and ill drained lands. Non availability of improved hybrid	Groundnut cultivated area in the dt.-2623ha. Vegetable cultivation 579 ha - Mango cultivation area in the district 2720 ha. Salt affected area in the dt.-6000 ha	Kovilpathu	OFT-Assessment of suitable Groundnut varieties for Nagapattinam FLD-Integrated Pest and Disease Management in Groundnut FLD-Demonstration of IPDM in Snake gourd FLD-Demonstration of IDM against root rot in Mulberry FLD-Demonstration of Mango RTS Beverage Production FLD-Demonstration of Saline tolerant Rice variety TRY 5 FLD-Demonstration of Chilli Arka Khayti hybrid for Nagapattinam district.
Thalainayar block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Major variety is G7- susceptible to water stress, *Helicoverpa*, dry root rot, late leaf spot and rust; low yield (17.30 q/ha). Lack of knowledge PGR application	Groundnut cultivated area in the dt.-2623ha. Mango cultivation area in the district 2720 ha	Thamaraipulam	OFT-Assessment of suitable Groundnut varieties for Nagapattinam FLD-Demonstration of flower induction and fruit setting in Mango.
Thalainayar block	Livestock, Fisheries	Less awareness in nursery rearing of crab instars	-	Avarikadu	FLD-Demonstration of Nursery rearing of Crab in saline water

Thalainayar block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Lack of scientific knowledge on feeding and management, poor growth performances Tick infestation Lack of knowledge, poor performance of existing variety.	-	Naluvethapathi	OFT-Assessment of feed supplementation to improve production in Goat FLD-Demonstration Ethno veterinary practices to manage Tick infestation FLD-Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district
Thalainayar block	Rice, Pulses, Livestock and Fisheries	Coastal ecosystems are characterized by sea water intrusion, low lying water logged areas, flood prone and ill drained lands.	Salt affected area in the dt.-6000 ha	Thalainayar	FLD-Demonstration of Saline tolerant Rice variety TRY 5
	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Lack of scientific knowledge on feeding and management Anoestrum, Delay in breeding cycle. Tick infestation Lack of knowledge, poor performance of existing variety.	-	Thennampulam	OFT-Assessment of feed supplementation to improve production in Goat FLD-Demonstration of Estrus synchronization by Vaginal sponges in goat FLD-Demonstration of Tick shield in controlling external parasites in dairy animals FLD-Demonstration Ethno veterinary practices to manage Tick infestation FLD-Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district
Vedaranyam block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Anoestrum, Delay in breeding cycle. Tick infestation Tick infestation Lack of knowledge, poor performance of existing variety.	-	Ayakkaranpulam	FLD-Demonstration of Estrus synchronization by Vaginal sponges in goat FLD-Demonstration Ethno veterinary practices to manage Tick infestation FLD-Demonstration of Tick shield in controlling external parasites in dairy animals FLD-Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district
Vedaranyam block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Tick infestation Lack of knowledge, poor performance of existing variety.	-	Kuravappulam	FLD-Demonstration Ethno veterinary practices to manage Tick infestation FLD-Demonstration of Tick shield in controlling external parasites in dairy animals FLD-Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district

Vedaranyam block	Rice, Pulses Coconut, Livestock, Fisheries	Yield loss due to crop damage (25-35%), Lack of knowledge on wild boar management	Yield loss due to crop damage (25-35%),	Agasthiyanpalli	OFT-Assessment of bio repellants against wild boar in Paddy
Vedaranyam block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Lack of knowledge PGR application		Pushbavanam	FLD-Demonstration of flower induction and fruit setting in Mango.
Vedaranyam block	Vegetables, Groundnut, Coconut, Mango, Livestock, Fisheries	Lack of knowledge PGR application	Mango cultivation area in the district 2720 ha	Katharipulam	FLD-Demonstration of flower induction and fruit setting in Mango.
Vedaranyam block	Rice, Pulses Coconut, Livestock, Fisheries	Lack of awareness on mobile app for fisheries technology	-	Voimedu	FLD-Demonstration of Mobile App for fish farming
Sembanarkoil block	Rice, Pulses, Cotton, Groundnut	Low yield of existing local varieties and unawareness of New Variety	Cotton cultivated area 5354 ha in the District	Thrukadaiyur	FLD-Demonstration of high density Cotton variety CO 17
Sembanarkoil block	Rice, Pulses, Cotton,	Low yield of existing local varieties and unawareness of New Variety	Cotton cultivated area 5354 ha in the District	Sembanarkoil	FLD-Demonstration of high density Cotton variety CO 17
Sirkazhi block	Rice, Pulses	Low yield of existing local varieties and unawareness of New Variety	-	Perunthottam	FLD-Demonstration of Newly released Rice variety ADT 57

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*
Nagapattinam Block	Akkaraipettai	Fisheries	Lack of awareness of value added fishery products. Lack of knowledge of different method	OFT, FLD, Training, Method demonstrations and Awareness camp

			of Prawn pickle preparation. Low income of women and rural youth entrepreneurs.	

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
Nagapattinam block	Ponveli	Rice, Pulses, Forestry, livestock and fish	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New Variety Lack of scientific knowledge on feeding and management, poor growth performances High infestation of rice ear head bug Poor yield. Lack of awareness on IPM. Lack of awareness of value added fishery products. Low income of women and rural youth entrepreneurs. Lack of knowledge, poor performance of existing variety. Lack of /less popularization of Fish Wafers although huge demand in market.	OFT-Assessment of Nano Urea fertilizer for Rice productivity improvement. FLD-Demonstration of Newly released Rice variety ADT 57 FLD-Demonstration of Long duration Rice variety ADT 52 OFT-Assessment of feed supplementation to improve production in Goat OFT-Assessing the Botanical Pest Management practices against Rice Ear head bug in Rice OFT-Assessment of different methods of Fish Cutlets preparation and their Quality Evaluation OFT-Assessment of different methods of Fish Rolls preparation and their Quality Evaluation FLD-Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district FLD-Demonstration of Fish Wafers Production
Kilvelur block	Agarakadambanur	Rice, Pulses, Vegetable, livestock and fish	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Low yield of existing local varieties and unawareness of New Variety Non adoption of IPM practices, high infestation of viral disease and sucking pests Lack of carp polyculture practices. Low yield in carp culture.	OFT-Assessment of Nano Urea fertilizer for Rice productivity improvement. FLD-Demonstration of Newly released Rice variety ADT 57. FLD-Demonstration of Long duration Rice variety ADT 52. FLD-Demonstration of suitable Rice fallow Black gram VBN 9. FLD-Demonstration on IPM against Viral diseases of Black gram – Pesticide application will be done through Drone Technology.

			Lack of scientific fish culture methods Lack of feeding practice fishes. Unawareness on preparation of farm made feed	OFT-Growth assessment of incorporation of murrel with Indian major carps polyculture system. FLD-Demonstration of low cost balanced farm made fish feed.

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

S.No.	Activities	Target
1. On- farm trials		
	a. No of OFTs	10
	b. No of Technologies (Total new technologies except FP)	20
	c. No. of locations (No. of Villages)	16
	d. No. of Beneficiaries (No. of Farmers fields)	42
	e. Area (Total area in ha)	6.2
2. Frontline Demonstrations		
	a. No. of FLDs	22
	b. No. of Locations (No of villages)	31
	c. No. of Beneficiaries (No of Farmers fields)	196
	d. Area (Total Area planned in ha)	45
3. Trainings for Farmers and Farm Women		
	a. No. of programmes	60
	b. No. of participants	2110
4. Trainings for Rural Youth		
	a. No. of programmes	16
	b. No. of participants	495
5. Trainings of Extension Personnel		
	a. No. of programmes	9
	b. No. of participants	360
6. Extension Activities		
	No. of activities (Total number of activities listed in Table ---)	1186
	No. of participants	23430
7. Production of seed (in quintals) (Crop-wise)		153
8. Production of planting materials (in Nos.) (Crop-wise)		6200
9. Production of live-stock strains and finger lings (Category wise Nos.)		760
10. Production of bio inputs –	*Bacillus subtilis* (Kg)	1000
	Azolla (Kg)	1000
	Fish Amino Acid and Panchkavya (Lit)	550
11. Production of other inputs –	Vermicompost (Kg)	2000
12. Kisan mobile advisories		
	No. of messages	25
	No. of technologies	25
	No. of farmers	4000
Other mobile advisories		
	No. of messages	125
	No. of technologies	125
	No. of farmers	12500
13. Soil testing		
	No. of soil sample testing using Mobile Soil Testing Kit	200
	No. of soil sample testing in conventional laboratory	75
Water sample Testing (samples in No.)		150
Soil Health Cards		
	No. of Cards using Mobile Soil Testing Kit data	200
	No. of Cards using Laboratory data	75

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 TO-1 TO-2	Status *	No. of trials (replications)	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village(s)	No. of trials targeted under SC-SP
1	Groundnut	Assessment of suitable Groundnut varieties for Nagapattinam	VRI 10, BSR 2, G7	TNAU 2022, TNAU 2019	New	5	40,000	Dr. V. Kannan, Dr.K. Chandrasekar and Mr. V. Gnanabharathi	-	2
2	Rice	Assessment of Nano Urea fertilizer for Rice productivity improvement	TO1 -Basal 25 % Recommended Nitrogen Fertilizer (37.5 kg N/ha)+ Nano Urea Spray 2.5 l /ha for 2 sprays. (1st spray at active tillering -25 Days After Transplanting + 2nd spray 20-25 days after 1st spray or before flowering in the crop) TO2-Blanket Recommendation of 4 Split application of Nitrogen (Basal, AT,PI and Heading) – As per CPG TNAU 2020 (150 kg N /ha)	IFFCO, 2021, CPG 2020, TNAU	New	5	8000	Dr. V. Kannan and Mr. V. Gnanabharthi PAT	2	2
3	Bottle gourd	Assessment of Bottle gourd hybrids for yield and market preference	TO-1-Bottle gourd hybrid Arka Ganga TO-2- Bottle gourd hybrid CO1 FP- Local varieties	TO-1- IIHR (2013) TO-2- TNAU (2012)	New	5	9,300/-	SMS Horticulture	-	1

				FP- Local varieties						
4	Paddy	Assessing the Botanical Pest Management practices against Rice Ear head bug *Leptocorisa acuta* in Rice	TO 1-Foliar spray of Nochi leaf extract 5 % TO 2-Foliar Spray of Azadiractin 300 ppm @ 3 ml/lit. Foliar spray of *Acorus calamus* aqueous rhizome extract @ 10 % FP -Pesticide spraying	TO 1 - TNAU CPG 2020 TO 2 - UAS, Dharwad, 2015	New	5	Rs.9000	Dr.K.Chandrasekar Dr.V.Kannan	1	2
5	Paddy	Assessment of bio repellants against wild boar in Paddy	TO 1 ❖ Spraying of Innovative Herboliv^{+} (10% dilution) with 10 days interval – 5 Application TO 2 ❖ Tying of Neelbo treated ropes around the field. 20-30 days once replacement required. FP ❖ Manual monitoring	TO 1 - Farmer innovation, 2019 TO 2 - PCI , 2016	New	5	Rs.19000	Dr.K.Chandrasekar Dr.S.Muthukumar	-	2
6	Livestock	Assessment of feed supplementation to improve production in Goat	TO1:Supplementation of creep feed with milk replacer to kids. TO2: Supplementation of creep feed with cow milk to kids	ICAR-NIANP, Bangalore-2019. ICAR – 2013.	New	5	22,500	SMS(AH),SMS(PP)	2	2

			FP: Free ranging without supplementation.							
7	Fisheries	Growth assessment of incorporation of murrel with Indian major carps polyculture system	TO1-Carp polycultue with murrel 8% - TO2-Carp polyculture with stripped murrel 16%. FP- Wild collected seeds with IMC	CIFRI, Barrackpore (2014) CIFA, 2017	NEW	3	81000	SMS (Fish Extn) and PC, KVK	1	2
8	Fisheries	Assessment of Zeolite and Biochar to improve fish production	TO1-Addition of Zeolite to pond for NH_3 absorption – TO2-Addition of Biochar for NH_3 absorption FP - No addition of Chemicals	CIFA, 2014 CIFE, 2019	New	3	15000	SMS (Fish Extn) and PC, KVK	1	2
9	Value Addition	Assessment of different methods of Fish Cutlets preparation and their Quality Evaluation	TO-1: TNJFU method TO-2: CIFT method FP: Conventional method	TO-1: TNJFU, 2020 TO-2: CIFT (2019)	New	3	36,000/-	Dr. A. Mathivanan, SMS (Fish Processing Technology)	2	2
10	Value Addition	Assessment of different methods of Fish Rolls preparation and their Quality Evaluation	TO-1: TNJFU method TO-2: CIFT method FP: Conventional method	TO-1: TNJFU, 2020 TO-2: CIFT (2019)	New	3	36,000/-	Dr. A. Mathivanan, SMS (Fish Processing Technology)	2	2

8.2. Details of OFTs (Use one table for each OFT) (TECHNOLOGY WRITEUP) 2022-23

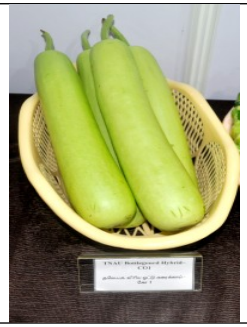
OFT No.	**01**
Status (New proposal/2nd year /3rd year)	New
Subject,	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Oil Seeds
Crop/ enterprise	Groundnut
Farming situation	Rainfed, red sandy loam
Prioritized problem (short)	Groundnut is cultivated in about 8500 ac in the district. Major variety is G7- susceptible to water stress, *Helicoverpa*, dry root rot, late leaf spot and rust; low yield (17.30 q/ha). Newly released groundnut varieties are yielding 30% higher than G7.
Title of the OFT	**Assessment of suitable Groundnut varieties for Nagapattinam**
Technology options	
TO-1	VRI 10
Source and year	TNAU, 2022
Description (short)	This variety is developed from VRI 2 x NRCG CS 349. It is a Spanish bunch shorter duration variety with 95 days. The average yield of culture is 2530 kg/ha. The oil content is 48% with seed viability. It has no in-situ germination of matured pods observed before harvest. It has moderate resistance to late leaf spot and rust besides thrips and leaf hopper. The variety is suitable for Chittrai, Adi and Aippasipattam under rainfed and Margazhipattam under irrigation
Potential yield/income	23.50 q /ha
Critical Inputs	Seeds 40 kg pods ; Rs.4000
Source of Inputs	Regional Research Station, Virudhachalam
Photos	
TO-2	BSR 2

Source and year	TNAU, 2019
Description (short)	Groundnut culture BSG 0912, released during 2019 as BSR 2 by TNAU;suitable for rainfed(2220 kg/ha)andirrigated(2360kg/ha) groundnutgrowingdistrictsofTamilNadu; highoilcontent (46.5%); high shelling (70.2%)outturn; moderatelyresistanttolateleafspotandrustdiseases; 110 days duration
Potential yield/income	23.60 q/ha
Critical inputs& quantity and cost	Seed40 kg; Rs.4000
Source of Inputs	ARS, Bhavanisagar
Photos	
Farmers Practice	G7
Farmers yield	18 q/ha
Season	Rabi 2022
Cost per replication (Rs.)	Rs. 8,000
No. of replications	5
Total cost for the OFT	Rs. 40,000
Parameters to be studied	Pod and haulm yield, pest and disease incidences, growth parameters, gross cost, gross income, net income, BCR
Parameters to be reported	Pod yield, gross expenditure, gross income, net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr. V. Kannan, Dr.K. Chandrasekar and Mr. V. Gnanabharathi

OFT No.	**02**
Status (New proposal/2nd year /3rd year)	New
Subject,	Agronomy
Theme	CPM (Crop production and Management)
Category (if applicable)	Cereals
Crop/ enterprise	Rice
Farming situation	Clay loam
Prioritized problem (short)	Rice plants require large amounts of mineral nutrients including nitrogen for their growth, development, and grain production. Nano-Urea increase crop growth up to optimum concentrations further increase in concentration may inhibit the crop growth due to the toxicity of nutrient. Nano-Urea provide more surface area for different metabolic reactions in the plant which increase rate of photosynthesis and produce more dry matter and yield of the crop. To find the effectiveness of nano urea in Nagapattinam district. This oft was formulated.

Title of the OFT	Assessment of Nano Urea fertilizer for Rice productivity improvement
Technology options	
TO-1	Basal 25 % Recommended Nitrogen Fertilizer (37.5 kg N/ha)+ Nano Urea Spray 2.5 l /ha for 2 sprays. (1st spray at active tillering -25 Days After Transplanting + 2nd spray 20-25 days after 1st spray or before flowering in the crop)
Source and year	IFFCO, 2021
Description (short)	Basal 25 % Recommended Nitrogen Fertilizer (37.5 kg N/ha)+ Nano Urea Spray 2.5 l /ha for 2 sprays. (1st spray at active tillering -25 Days After Transplanting + 2nd spray 20-25 days after 1st spray or before flowering in the crop)
Potential yield/income	-
Critical Inputs	IFFCO Nano Urea
Source of Inputs	Agro chemicals
Photos	
TO-2	Blanket Recommendation of 4 Split application of Nitrogen (Basal, AT,PI and Heading) – As per CPG TNAU 2020 (150 kg N /ha)
Source and year	TNAU, CPG 2020
Description (short)	Blanket Recommendation of 4 Split application of Nitrogen (Basal, AT,PI and Heading) – As per CPG TNAU 2020 (150 kg N /ha)
Potential yield/income	-
Critical inputs& quantity and cost	-
Source of Inputs	Agro chemicals
Photos	
Farmers Practice	-
Farmers yield	-
Season	Rabi 2022
Cost per replication (Rs.)	Rs.2,500
No. of replications	5
Total cost for the OFT	Rs. 12,500
Parameters to be studied	No. of tillers, No. of panicle, Yield (kg/ha), Economics
Parameters to be reported	No. of tillers, No. of panicle, Yield (kg/ha), Economics
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr. V. Kannanand Mr. V. Gnanabharathi

OFT No.	**03**
Status (New proposal/2nd year /3rd year)	New
Subject,	Horticulture
Theme	Varietal evaluation
Category (if applicable)	Vegetables
Crop/ enterprise	Bottle gourd
Farming situation	Irrigated, sandy loam
Prioritized problem (short)	Cultivation of local variety exhibits smaller size fruits, immature fruit drop which in turn resulted low yield.
Title of the OFT	**Assessment of Bottle gourd hybrids for yield and market preference**
Technology options	
TO-1	Bottle gourd hybrid Arka Ganga
Source and year	IIHR (2013)
Description (short)	F_1 hybrid Arka Ganga is resistant to gummy stem blight (*Didymella bryoniae*) with a yield potential of 58 t/ha. Fruits are green and oblong / oval. This hybrid will be ready to first picking by 56 days after planting. It is an open pollinated variety.
Potential yield/income	58 t/ha
Critical Inputs	Seed , Vegetable special Rs.4650
Source of Inputs	IIHR (2013)
Photos	
TO-2	Bottle gourd hybrid CO1
Source and year	TNAU (2012)
Description (short)	It is a induced mutant from H375 with in yield potential of 25t/ha in 135-140 days. The fruits are extra long (180-200cm)
Potential yield/income	25t/ha
Critical inputs& quantity and cost	Seed , Vegetable special Rs.4650
Source of Inputs	KVK Nagapattinam

Photos	
Farmers Practice	Local varieties
Farmers yield	18 t/ha
Season	Rabi 2022
Cost per replication (Rs.)	1860/-
No. of replications	5
Total cost for the OFT	Rs.9300
Parameters to be studied	No. of fruits / plant, fruit yield (q/ha), Market Price (Rs/kg), gross cost, gross income, net income, BCR
Parameters to be reported	No. of fruits / plant, fruit yield (q/ha), Market Price (Rs/kg), gross income, net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Mr. K.Ragu SMS Horticulture

OFT No.	**04**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Plant Protection
Theme	Plant Protection-IPM
Category (if applicable)	Cereals
Crop/ enterprise	Paddy
Farming situation	Rainfed, clay loam
Prioritized problem (short)	❖ High infestation of rice ear head bug ❖ Poor yield ❖ Lack of awareness on IPM.
Title of the OFT	**Assessing the Botanical Pest Management practices against Rice Ear head bug *Leptocorisa acuta* in Rice**

Technology options	
TO-1	
Source and year	TNAU CPG 2020
Description (short)	Foliar spray of Nochi leaf extract 5 %
Potential yield/income	-
Critical Inputs	Nochi leaf extract 5 %
Source of Inputs	
Photos	
TO-2	
Source and year	UAS, Dharwad, 2015
Description (short)	Foliar Spray of Azadiractin 300 ppm @ 3 ml/lit Foliar spray of *Acorus calamus* aqueous rhizome extract @ 10 %
Potential yield/income	-
Critical inputs& quantity and cost	▪ Azadiractin ▪ *Acorus calamus*
Source of Inputs	KVK, Puduchery
Photos	-
Farmers Practice	Pesticide spraying
Farmers yield	4 t/ha
Season	Rabi 2022
Cost per replication (Rs.)	05
No. of replications	Rs.1800
Total cost for the OFT	Rs.9000
Parameters to be studied	Damage percentage, Benefit Cost Ratio, Yield Q/ha
Parameters to be reported	Yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/	KVK Main

Project/Others (specify)	
Team members	Dr.K. Chandrasekar (PP) and Dr. V.Kannan

OFT No.	**05**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Plant Protection
Theme	Plant Protection-IPM
Category (if applicable)	Cereals
Crop/ enterprise	Paddy
Farming situation	Rainfed, sandy loam
Prioritized problem (short)	Yield loss due to crop damage (25-35%), Lack of knowledge on wild boar management.
Title of the OFT	Assessment of bio repellants against wild boar in Paddy
Technology options	
TO-1	
Source and year	Farmer innovation 2019
Description (short)	Spraying of Innovative Herboliv+ (10% dilution) with 10 days interval – 5 Application
Potential yield/income	-
Critical Inputs	Innovative Herboliv - 25 lit
Source of Inputs	Mivipro products, Erode
Photos	-
TO-2	
Source and year	PCI 2016
Description (short)	Tying of Neelbo treated ropes around the field. 20-30 days once replacement required.
Potential yield/income	-
Critical inputs& quantity and cost	▪ Neelbo - 1 lit
Source of Inputs	PCI
Photos	-

Farmers Practice	Manual monitoring
Farmers yield	4 t/ha
Season	Rabi 2022
Cost per replication (Rs.)	05
No. of replications	Rs.3800
Total cost for the OFT	Rs.9000
Parameters to be studied	Damage percentage, Benefit Cost Ratio, Yield Q/ha
Parameters to be reported	Yield, Gross expenditure, Gross income, Net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr.K. Chandrasekar (PP) and Dr. S.Muthukumar

OFT No.	**06**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Animal husbandry
Theme	Scientific feeding
Category (if applicable)	Feeding
Crop/ enterprise	Goat
Farming situation	Intensive system
Prioritized problem (short)	Lack of scientific knowledge on feeding and management, poor growth performances
Title of the OFT	**Assessment of feed supplementation to improve production in Goat**
Technology options	
TO-1	Supplementation of creep feed with milk replacer to kids.
Source and year	ICAR- NIANP, Bangalore-2019.
Description (short)	Supplementary feeding through milk replacer in lambs/kids can address multiple issues such as low plane of nutrition, high kid mortality, lower body weight, susceptible to more number of diseases results more numbers of kid/lambs lost during pre weaning period. Milk replacer is special feed containing quality ingredients that are highly palatable and readily available to the younger ones. Targeted for supplying nutritional demand of the younger nursing kids and lambs in achieving optimum growth and health status.
Potential yield/income	-
Critical Inputs	NIANP Milk replacer- 3 Kg and Mineral blocks and supplements- 4 Nos, creep feed- 30Kg/trial.

Source of Inputs	NIANP
Photos	-
TO-2	Supplementation of creep feed with cow milk to kids
Source and year	ICAR – Nutrient requirement standards for sheep and goat, 2013.
Description (short)	Creep feed is prepared as per the standard nutiritional recommendation for the kids and lambs and fed to them along with cow milk as supplementary diet.
Potential yield/income	1-1.5 Kg/Young
Critical inputs& quantity and cost	Creep feed- 30 Kg and Mineral blocks and supplements- 4 Nos.
Source of Inputs	CFTU, Kattupakkam
Photos	-
Farmers Practice	No feed supplementation and imbalanced feeding
Farmers yield	-
Season	Throughout the year
Cost per replication (Rs.)	4500
No. of replications	5
Total cost for the OFT	22,500
Parameters to be studied	Pre weaning Weight gain, Survivability and BCR.
Parameters to be reported	Pre weaning Weight gain, Survivability and BCR.
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK- Main
Team members	SMS-AH, PP & PC

OFT No.	**07**
Status (New proposal/2nd year /3rd year)	New
Subject,	Fisheries Science
Theme	Animal Science and Fishery
Category (if applicable)	
Crop/ enterprise	Murrel and IMC
Farming situation	Canal Irrigation and Clay loam soil
Prioritized problem (short)	Freshwater fishes are cultivated in about 388 ha in the district using farm ponds. Majority of freshwater fish farmers have little knowledge on water quality management in fish culture which results in less production. Usage of chemicals like Zeolite and

	biochar could improve the water quality of the culture, which ultimately increase the resistance against diseases.
Title of the OFT	**Assessment of Zeolite and Biochar to improve fish production**
Technology options	
TO-1	Application of Zeolite
Source and year	CIFA, 2014
Description (short)	Zeolite is a crystalline, microporous, alumino silicate minerals with chemically neutral basic. Zeolite could be used to eliminate or reduce the content of ammonia, hydrogen sulphide, nitrite, heavy metals in fish pond. It can also increase the oxygen level and adjust pH levels
Potential yield/income	Eg. 23.60 q/ha
Critical Inputs	Zeolite
Source of Inputs	To be purchased from private companies providing aquaculture inputs
Photos	
TO-2	Application of Biochar
Source and year	CIFE, 2019
Description (short)	
Potential yield/income	
Critical inputs& quantity and cost	Biochar
Source of Inputs	To be purchased from private companies providing aquaculture inputs
Photos	
Farmers Practice	They don’t any inputs for water quality management
Farmers yield	<500 kg/acre
Season	Year round
Cost per replication (Rs.)	Rs. 5000
No. of replications	3

Total cost for the OFT	Rs. 15000
Parameters to be studied	Increase in production, growth parameters, gross cost, gross income, net income, BCR
Parameters to be reported	Pod yield, gross expenditure, gross income, net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK B. Tech
Team members	SMS (Fish Extn) and PC, KVK

OFT No.	**08**
Status (New proposal/2nd year /3rd year)	New
Subject,	Fisheries
Theme	Inland fisheries
Category (if applicable)	Carp culture
Crop/ enterprise	Murrel and IMC
Farming situation	Clayey loam soil
Prioritized problem (short)	• Lack of carp polyculture practices • Low yield in carp culture • Lack of scientific fish culture methods
Title of the OFT	Growth assessment of incorporation of murrel with Indian major carps polyculture system
Technology options	
TO-1	Carp polycultue with murrel 8%
Source and year	CIFRI, Barrackpore (2014)
Description (short)	Murrel varities like Channa marulius and Channa punctatus will be cultured along with Indian major carps in the farm ponds of 1000m2 area with 8% incorporation. Murrels will be stocked in a size smaller than the size of carp fingerlings
Potential yield/income	700 kgs/acre
Critical Inputs	Murrel seed, carp seed and fish feed
Source of Inputs	Fish feed and seed will be procured from private hatchery and feed manufacturer

Photos	 
TO-2	Carp polyculture with stripped murrel 16%
Source and year	CIFA, 2017
Description (short)	Striped Murrel (Channa striatus) will be stocked in the farm pond of 1000m2 area along with Indian Major carps with 16% incorporation
Potential yield/income	<1 ton/acre
Critical inputs& quantity and cost	Murrel seed, carp seed and fish feed
Source of Inputs	Fish feed and seed will be procured from private hatchery and feed manufacturer
Photos	 
Farmers Practice	Farmers do murrel culture with the wild collected seeds along with fingerlings of IMC.
Farmers yield	< 500 kgs/acre
Season	Northeast and Southwest monsoon
Cost per replication (Rs.)	Rs. 27000
No. of replications	3
Total cost for the OFT	81,000
Parameters to be studied	Growth, suruvival rate and total yield
Parameters to be reported	Growth, suruvival rate and total yield
Source of funding (KVK-Main/TSP/ /SC SP/	ICAR- KVK

Project/Others (specify)	
Team members	SMS (Fish Extn) and PC, KVK

OFT No.	**09**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Home Science
Theme	Evaluation of different methods
Category (if applicable)	Value Addition
Crop/ enterprise	Fish Cutlets
Farming situation	-
Prioritized problem (short)	1. Lack of awareness of value added fishery products. 2. Lack of knowledge of different method of Fish Cutlets preparation. 3. Lack of /less popularization of Fish Cutlets although huge demand in market. 4. Low income of women and rural youth entrepreneurs.
Title of the OFT	**Assessment of different methods of Fish Cutlets preparation and their Quality Evaluation**
Technology options	
TO-1	TNJFU method
Source and year	TNJFU, 2020
Description (short)	Steam boiling of fish (three different types of low value fishes)/30 min to get fish mince, blended with smashed potato, spices, round shaped to 35 g per pieces, battered with maida, salt & breaded, fried, stored at -20°C & Self-life 6 months.at -20°C
Potential yield/income	Rs.10/pc
Critical Inputs	Fish, Potato, Spices, Salt, maidaand Packaging materials
Source of Inputs	Fish Landing Centers - **Akkaraipettai**, Nagapattinam.
Photos	 
TO-2	CIFT method
Source and year	CIFT (2019)
Description (short)	Direct boiling of fish in 3% brine & 0.1% citric acid/15 min to get fish mince, blended with smashed potato, spices, round shaped to 40 g per pieces, battered with maida, cornflour, Bengal gramflour, salt & breaded, fried, stored at -

	18°C & Self-life 6 months.at -18°C
Potential yield/income	Rs.7.5/pc
Critical inputs& quantity and cost	Fish, Potato, Spices, Salt, maida, cornflour, Bengal gramflour and Packaging materials
Source of Inputs	Fish Landing Centers - **Akkaraipettai**, Nagapattinam.
Photos	 
Farmers Practice	Conventional method (Direct boiling of fish in water to get fish mince, blended with smashed potato, spices, round shaped to differential weighed per pieces, battered with maida, salt & breaded, fried, stored at 4-7°C & Self-life 4-7 days.at 4-7°C)
Farmers yield	Rs.5/pc
Season	Throughout year
Cost per replication (Rs.)	12,000/-
No. of replications	3
Total cost for the OFT	36,000/-
Parameters to be studied	Self life, Microbial quality, Nutritional profile and Sensory Evaluation.
Parameters to be reported	Self life, Nutritional profile and Sensory Evaluation.
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	**Dr. A. MATHIVANAN, SMS (Fish Processing Technology)**

OFT No.	**10**
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Home Science
Theme	Evaluation of different methods
Category (if applicable)	Value Addition
Crop/ enterprise	Fish Rolls
Farming situation	-
Prioritized problem (short)	1. Lack of awareness of value added fishery products. 2. Lack of knowledge of different method of Fish Rolls preparation.

	3. Lack of /less popularization of Fish Rolls although huge demand in market. 4. Low income of women and rural youth entrepreneurs.
Title of the OFT	**Assessment of different methods of Fish Rolls preparation and their Quality Evaluation**
Technology options	
TO-1	TNJFU method
Source and year	TNJFU, 2020
Description (short)	Steam boiling of fish/30 min to get fish mince, blended with smashed potato, spices, sheet of dough filling at centre with 15-20 g blended masala & fish mince, battered with maida, salt & breaded, fried, stored at -20°C & Self-life 6 months.at -20°C
Potential yield/income	Rs.10/pc
Critical Inputs	Fish, Potato, Spices, Salt, maida and Packaging materials
Source of Inputs	Fish Landing Centers - **Akkaraipettai**, Nagapattinam.
Photos	 
TO-2	CIFT method
Source and year	CIFT (2019)
Description (short)	Direct boiling of fish for 15 min to get fish mince, blended with fried, smashed spices &masala , sheet of dough filling at centre with 20-25 g blended masala & fish mince, battered with maida, cornflour, Bengal gramflour, salt & breaded, fried, stored at -18°C & Self-life 6 months.at -18°C
Potential yield/income	Rs.7.5/pc
Critical inputs& quantity and cost	Fish, Spices, Salt, maida, corn flour, Bengal gram flour and Packaging materials
Source of Inputs	Fish Landing Centers - **Akkaraipettai**, Nagapattinam.

Photos	 
Farmers Practice	Conventional method (Direct boiling of fish in water to get fish mince, blended with smashed potato, spices, sheet of dough filling at centre with differential weight of blended masala & fish mince, battered with maida, salt & breaded, fried, stored at 4-7°C & Self-life 4-7 days.at 4-7°C)
Farmers yield	Rs.5/pc
Season	Throughout year
Cost per replication (Rs.)	12,000/-
No. of replications	3
Total cost for the OFT	36,000/-
Parameters to be studied	Self life, Microbial quality, Nutritional profile and Sensory Evaluation.
Parameters to be reported	Self life, Nutritional profile and Sensory Evaluation.
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	**Dr. A. MATHIVANAN, SMS (Fish Processing Technology)**

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	Rice	Demonstrati	Low yield of existing local	ADT 57	TNAU, 2022	New	10	4 ha	15000	Dr. V.	2	-

		on of Newly released Rice variety ADT 57	varieties and unawareness of New Variety							Kannan		
2	Rice	Demonstration of Saline tolerant Rice variety TRY 5	Coastal district, the ecosystems are characterized by sea water intrusion, low lying water logged areas, flood prone and ill drained lands.	TRY 5	TNAU, 2022	New	10	4 ha	15000	Dr. V. Kannan	2	-
3	Rice	Demonstration of Long duration Rice variety ADT 52	Low yield of existing local varieties and unawareness of New Variety	ADT 52	TNAU, 2018	New	10	4 ha	15000	Dr. V. Kannan	2	-
4	Black gram	Demonstration of suitable Rice fallow Black gram VBN 9	Low yield of existing local varieties and unawareness of New Variety	VBN 9	TNAU, 2019	Last yesr	10	4 ha	15000	Dr. V. Kannan	2	-
5	Cotton	Demonstration of high density Cotton variety CO 17	Low yield of existing local varieties and unawareness of New Variety	CO 17	TNAU, 2020	New	10	4 ha	18000	Dr. V. Kannan	2	-
6	Chilli	Demonstration of Chilli Arka Khayti	Non availability of improved	Arka Khyati	IIHR (2017)	OFT to FLD	10	0.4	12300	SMS Horiticulture	-	2

		hybrid for Nagapattinam district.	hybrid									
7	Brinjal	Demonstration of Brinjal VRM 2 variety for Nagapattinam district.	Yield loss due to high pest and disease incidence	Brinjal VRM (Br) 2	TNAU 2021	New	10	2.0	3,800	SMS Horiticulture		2
8	Mango	Demonstration of flower induction and fruit setting in Mango.	Lack of knowledge PGR application	IIHR Mango special @ 5g/l twice before flowering & twice after flowering	IIHR	2nd year	10	2.0	12800	SMS Horiticulture		2
9	Brinjal	Demonstration of IIHR Seed pro-(A microbial plant growth promoter and fungal disease suppressor) for increasing growth and yield in Brinjal.	Yield loss due to pest and disease management	ICAR-IIHR has developed an IIHR Seed pro	IIHR 2020	New	10	2.0	6500	SMS Horiticulture		2

10	Pulses	Demonstration on IPM against Viral diseases of Black gram – Pesticide application will be done through Drone Technology	Injudicious use of pesticides for the management of sucking pest. Non adoption of IPM practices, High infestation of viral disease and sucking pests	➢ Seed treatment with Imidacloprid 600 FS@5 ml/Kg of seeds, ➢ Installation of yellow sticky traps @ 12 number / ha, ➢ Rogue out the virus infected plants up to 45 days ➢ Foliar spray of 10% Notchi leaf extract at 30 DAS (or) Neem formulation @ 3 ml / litre ➢ Spray Imidacloprid 17.8 SL @ 250 ml / ha (or) Thiamethoxam 75 WG @ 100 grams / ha and repeat after 15 days.	TNAU 2020	2nd Year	10	4	27,500	Dr.K. Chandrasekar (PP) and Dr. V.Kannan, SMS (Agronomy)	-	3
11	Oilseeds	Integrated Pest and Disease Management in Groundnut	The farmers lack awareness on IPDM and the significant on biocontrol metods	• Planting of Castor as border crop and Black gram as Intercrop. • Seed treatment	TNAU 2020	1st Year	10	4	20,000	Dr.K. Chandrasekar (PP) and Dr. V.Kannan	-	3

				with *Bacillus subtilis* 10g /kg of seed. • Soil application of *Bacillus subtilis* and *Trichoderma asperellum* @ 2.5kg/ha (Each) • Setting of *S. litura* and *Helicoverpa* Pheromone trap @ 12 per ha. • Setting of Yellow sticky trap 12 per /ha. • Need based application Azadiractin 0.03% • Foliar application of Hexaconazole 0.1 %								

				and Imidachloprid 17.8 % SL 100 ml/ ac.								
12	Vegetables	Demonstration of IPDM in Snake gourd	The farmers lack awareness on IPDM and the significant on biocontrol methods	• Collect affected fruits and destroy • Adjust sowing time, Expose pupae by ploughing, Install fruit fly trap @ 4/ acre • Spray Neem oil @ 3.0 % , Apply Neem cake @ 50g/Pit • Two sprays of *Bacillus thuringiensis var kurstaki* 5% WP @1g / lit • Seed treatment	TNAU 2020	1st Year	10	4	Rs. 25,000	Dr.K. Chandrasekar (PP) and Mr.K.Ragu	-	3

				with *Trichoderma viride* @ 10g/kg of seed and SA 2.5 kg /acre; • Need based spray of Chlorantraniliprole 18.5 SC @ 2ml per 10 lts and Mancozeb Or Chlorothalonil @ 2 gm per lt.								
13	Mulberry	Demonstration of IDM against root rot in Mulberry	The farmers lack awareness on IDM and the significant on biocontrol methods	• Application of copper oxy chloride at root region (2g /lit of water). • Soil application of zinc sulphate @ 10 kg/ha in two split	TNAU 2020	1st Year	10	4	Rs. 25,000	Dr.K. Chandrasekar (PP) and Dr. S.Muthukumar	-	3

				doses. • Application of *Trichoderma viride* + *Bacillus subtilis* @ 100g/plant. • Raising of the green manure crop (Sunhemp / Daincha) and *in situ* ploughing before flowering								
14	Livestock	Demonstration of Estrus synchronization by Vaginal sponges in goat	Anoestrum , Delay in breeding cycle.	Vaginal sponges Estrus synchronization	CSWRI	New	10	-	15000	SMS-AH, PP & PC	3	2
15	Dairy	Demonstration Ethnoveterinary practices to manage Tick infestation	Tick infestation	Ethno Veterinary Medicine	NDDB	New	10	-	9000	SMS-AH, PP & PC	3	2
16	Dairy	Demonstration of Tick shield in controlling	Tick infestation	Spot on preparation	TRPVB	New	10	-	10000	SMS-AH, PP & PC	3	2

		external parasites in dairy animals										
17	Poultry	Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district	Lack of knowledge, poor performance of existing variety.	Improved variety for backyard	PRS, TANUVAS	New	10	-	60000	SMS-AH, PP & PC	3	2
18	Fisheries	Demonstration of low cost balanced farm made fish feed	Lack of feeding practice fishes. Unawareness on preparation of farm made feed	Preparation of Farm made feed using locally available ingredients	CIFA 2011	New	3	0.5	21000	SMS (Fish Extn) and PC, KVK	2	1
19	Fisheries	Demonstration of Nursery rearing of Crab in saline water	Survival rate is very less Less awareness in nursery rearing of crab instar	Nursery rearing of crab instar	SAU 2011	New	3	0.5	45000	SMS (Fish Extn) and PC, KVK	2	1
20	Fisheries	Demonstration of Mobile App on fish culture	Un awareness of mobile app for fish culture	Expert system-mobile app	TNJFU	New	10	-	15000	SMS (Fish Extn) and PC, KVK	2	1
21	Value Addition	Demonstration of Fish Wafers Production	Lack of /less popularization of Fish Wafers although huge demand in market.	Fish Wafers Production	TNJFU, 2020	New	5	-	Rs.17500	Dr. A. Mathivanan, SMS (FPT)	2	2

22	Value Addition	Demonstration of Mango RTS Beverage Production	Lack of knowledge of method of Mango RTS preparation	Mango RTS Beverage Production	TNAU, 2019	New	5	-	Rs.10500	Dr. A. Mathivanan, SMS (FPT)	2	2

9.2. Details of FLDs (Use one table per FLD) (TECHNOLOGY WRITEUP) 2022-23

FLD No.:	**01**
Status (New proposal/2nd year /3rd year)	New
Subject	Agronomy
Category:	Cereals
Crop/ enterprise:	Rice
Farming situation	Canal irrigation and Clay loam
Prioritized problem:	Low yield of existing local varieties and unawareness of New Variety
Title	**Demonstration of Newly released Rice variety ADT 57**
Technology to be demonstrated:	Rice variety ADT 57
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2022
Description	ADT 57, Yield potential 6.5 t/ha, 115 days duration, Moderately resistant to BLB, brown spot.
Potential yield	6.5 t/ha
Critical input, quantity and cost	Seed, 16 kg, Rs.1,500
Farmers practice	CO 51
Source of input	TRRI, Aduthurai
Photos	
Average farmers yield	4 t/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.15000
Parameters to be studied:	No. of tillers/plant, Grain yield t/ha, Economics
Parameters to be reported	No. of tillers/plant, Grain yield t/ha, Economics
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr. V. Kannan, Dr.K. Chandrasekar and Mr. V. Gnanabharathi

FLD No.:	**02**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Cereals
Crop/ enterprise:	Rice
Farming situation	Canal irrigation, Clay loam, Soil fertility status: Low N, Medium P and High K
Prioritized problem:	In Nagapattinam, rice is the predominant crop during samba season. In Samba season CR 1009 is predominantly grown variety without any alternate varieties. Mono cropping of CR 1009 leads to susceptibility to pests such as brown plant hoppers (BPH) stem borers and diseases such as blast, bacterial leaf blight (BLB), grain discoloration and false smut. In order to provide an alternate choice of variety to farmers and besides to find the alternative, ADT 52 like variety needs to be popularised.
Title	**Demonstration of Long duration Rice variety ADT 52**
Technology to be demonstrated:	Rice variety ADT 52
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2018
Description	ADT 52 is a Long duration variety with 145 days, suitable for Samba season. non-lodging variety with yield potential of 7050 kg/ha. Average yield 5100 kg/ha.
Potential yield	6.2 t/ha
Critical input, quantity and cost	Seed, 16 kg, Rs.1,500
Farmers practice	CR 1009 sub1
Source of input	TRRI, Aduthurai
Photos	
Average farmers yield	4 t/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.15000
Parameters to be studied:	No. of tillers/plant, Grain yield t/ha, Economics
Parameters to be reported	No. of tillers/plant, Grain yield t/ha, Economics
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main

Team members	Dr. V. Kannan (Agronomy), Dr.K. Chandrasekar (PP)and Mr. V. Gnanabharathi

FLD No.:	**03**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Cereals
Crop/ enterprise:	Rice
Farming situation	Canal irrigation, Clay loam, Soil fertility status: Low N, Medium P and High K
Prioritized problem:	Nagapattinam is a coastal district, the ecosystems are characterized by sea water intrusion, low lying water logged areas, flood prone and ill drained lands. The soil texture of coastal saline soils is coarse sandy to fine loamy, moderately saline to alkaline. These soils are low in nitrogen, phosphorous, zinc and organic matter. There is a need to popularize saline tolerant variety in the district.
Title	**Demonstration of Newly released Rice variety TRY 5**
Technology to be demonstrated:	Rice variety TRY 5
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2022
Description	TRY 5 is Short duration variety matures in 110-115 days, with an average grain yield of 5100 kg per hectare (ha) and 12.64% grain yield advantage over TRY 2. The variety is resistant to blast and brown leaf spot diseases suitable for Sodic and saline soils
Potential yield	6.2 t/ha
Critical input, quantity and cost	Seed, 16 kg, Rs.1,500
Farmers practice	TRY 3
Source of input	ADAC, Trichy
Photos	
Average farmers yield	4 t/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.15000
Parameters to be studied:	No. of tillers/plant, Grain yield t/ha, Economics
Parameters to be reported	No. of tillers/plant, Grain yield t/ha, Economics
Source of funding (KVK-Main/TSP/ /SC SP/	KVK Main

Project/Others (specify)	
Team members	Dr. V. Kannan (Agronomy), Dr.K. Chandrasekar (PP)and Mr. V. Gnanabharathi

FLD No.:	**04**
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Agronomy
Category:	Pulses
Crop/ enterprise:	Black gram
Farming situation	Rice fallow, Clay loam, Soil fertility status: Low N, Medium P and High K
Prioritized problem:	Low Yielding nature of existing varieties. Unawareness of new variety. Variety resistance to MYMV should be needed.
Title	Demonstration of ICM practices for Black Gram VBN 9
Technology to be demonstrated:	Black Gram VBN 9
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2019
Description	VBN 9, 70-75 days duration, Rice fallow Yield of 1230 kg/ha. Moderately resistant to YMV, Suitable for Rice fallow.
Potential yield	1230 kg/ha
Critical input, quantity and cost	Seed, 8 kg, Rs. 1500
Farmers practice	ADT 3
Source of input	NPRC Vamban
Photos	
Average farmers yield	1230 kg/ha
Season	Rabi 2022-23
No. of Demos (replications)	10
Total cost for the Demo	Rs.15,000
Parameters to be studied:	Plant height, Pods and Grain yield, pest and diseases, Gross cost, gross and net income, BCR
Parameters to be reported	Grain yield, gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr. V. Kannan (Agronomy), Mr. K. Ragu (Hort)and Mr. V. Gnanabharathi

FLD No.:	**05**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Fiber crops
Crop/ enterprise:	Cotton
Farming situation	Canal irrigation, Clay loam, Soil fertility status: Low N, Medium P and High K
Prioritized problem:	Nagapattinam is a coastal district, the ecosystems are characterized by sea water intrusion, low lying water logged areas, flood prone and ill drained lands. The soil texture of coastal saline soils is coarse sandy to fine loamy, moderately saline to alkaline. These soils are low in nitrogen, phosphorous, zinc and organic matter. There is a need to popularize saline tolerant variety in the district.
Title	**Demonstration of Newly Released cotton variety CO 17**
Technology to be demonstrated:	CO 17
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2020
Description	Cotton variety CO 17 is a short duration compact plant type with synchronized boll maturity suitable for high density planting system (HDPS). Rice fallow, winter rainfed and summer irrigated tracts of Tamil Nadu. Number of bolls/plant (15-20), Medium boll size (3.5-4.0g), upper half mean length of fibre 27.0 mm (medium long staple), bundle strength 26.9 g/tex, It can spin upto 40's counts.. Average seed cotton yield 2505 kg/ha Ginning outturn 35%
Potential yield	25q/ha
Critical input, quantity and cost	Seed,Rs.1,800
Farmers practice	Private Hybrid
Source of input	CRS, Veppankulam
Photos	
Average farmers yield	18 t/ha
Season	Summer 2023

No. of Demos (replications)	10
Total cost for the Demo	Rs.18000
Parameters to be studied:	No. of Bolls, Poll Size, Boll Yield, Economics
Parameters to be reported	No. of Bolls, Poll Size, Boll Yield, Economics
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr. V. Kannan (Agronomy), Mr. K. Ragu (Hort) and Mr. V. Gnanabharathi

FLD No.:	**06**
Status (New proposal/2nd year /3rd year)	OFT to FLD
Subject	Horticulture
Category:	Vegetables
Crop/ enterprise:	Chilli
Farming situation	irrigated sandy load
Prioritized problem:	Non availability of improved hybrid
Title	Demonstration of Chilli Arka Khayti hybrid for Nagapattinam district.
Technology to be demonstrated:	Arka Khyati yields: 40-45 t/ha (fresh) & 5-5.5 t/ha (dry) in 180 days
Hybrid or Variety:	Hybrid
Source of Technology:	IIHR (2017)
Description	Arka Khyati yields: 40-45 t/ha (fresh) & 5-5.5 t/ha (dry) in 180 days
Potential yield	40-45 t/ha
Critical input, quantity and cost	Arka Khyati Seeds-40 g, Azospirillum -1 kg, Phosphobacteria -1 kg, IIHR Vegetable special 1 kg , Rs.12300/-
Farmers practice	Private hybrid
Source of input	KVK Nagapattinam
Photos	
Average farmers yield	22 t/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.12300/-

Parameters to be studied:	Days to 1st harvest, No. of fruits/plant, Yield(q/ha), Gross cost, gross and net income, BCR
Parameters to be reported	Pod yield, gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Mr.K.Ragu SMS Horticulture

FLD No.:	**07**
Status (New proposal/2nd year /3rd year)	New
Subject	Horticulture
Category:	Vegetables
Crop/ enterprise:	Brinjal
Farming situation	irrigated sandy load
Prioritized problem:	Yield loss due to high pest and disease incidence
Title	**Demonstration of Brinjal VRM 2 variety for Nagapattinam district.**
Technology to be demonstrated:	Brinjal VRM (Br) 2
Hybrid or Variety:	Variety
Source of Technology:	TNAU 2021
Description	Brinjal VRM (Br) 2 variety with 140 days duration recommended for Vellore and adjoining districts. 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.
Potential yield	50t/ha.
Critical input, quantity and cost	Seed , Vegetable special, Rs. 3,800/-
Farmers practice	Local variety
Source of input	KVK Nagapattinam
Photos	
Average farmers yield	35t/ha.
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs. 3,800/-
Parameters to be studied:	No. of fruits / plant, fruit yield (q/ha), Market Price (Rs/kg) , Gross cost, gross and net income, BCR
Parameters to be reported	Yield, gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Mr.K.Ragu SMS Horticulture

FLD No.:	**08**

Status (New proposal/2nd year /3rd year)	2nd year
Subject	Horticulture
Category:	Fruits
Crop/ enterprise:	Mango
Farming situation	irrigated sandy load
Prioritized problem:	Lack of knowledge PGR application
Title	**Demonstration of flower induction and fruit setting in Mango.**
Technology to be demonstrated:	IIHR Mango special
Hybrid or Variety:	Variety
Source of Technology:	IIHR
Description	IIHR Mango special @ 5g/l twice before flowering & twice after flowering
Potential yield	9t/ha.
Critical input, quantity and cost	Mango special, Rs.12800/-
Farmers practice	Variety
Source of input	KVK Nagapattinam
Photos	
Average farmers yield	7t/ha.
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.12800/-
Parameters to be studied:	No. of fruits / plant, fruit yield (q/ha), Gross cost, gross and net income, BCR
Parameters to be reported	Yield, gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Mr.K.Ragu SMS Horticulture

FLD No.:	**09**
Status (New proposal/2nd year /3rd year)	New
Subject	Horticulture
Category:	Vegetables

Crop/ enterprise:	Brinjal
Farming situation	irrigated sandy load
Prioritized problem:	Yield loss due to pest and disease management
Title	**Demonstration of IIHR Seed pro- (A microbial plant growth promoter and fungal disease suppressor) for increasing growth and yield in Brinjal.**
Technology to be demonstrated:	IIHR Seed pro- (A microbial plant growth promoter and fungal disease suppressor)
Hybrid or Variety:	Variety
Source of Technology:	IIHR (2020)
Description	ICAR-IIHR has developed an IIHR Seed pro- (A microbial plant growth promoter and fungal disease suppressor) for increasing growth and yield in Brinjal. This product was found to boost growth of the seedlings and also suppress the soil and seed borne diseases. Its benefits are enormous in terms of early germination, growth and disease suppression.
Potential yield	46t/ha.
Critical input, quantity and cost	IIHR Seed pro, Rs.6500/-
Farmers practice	Local variety
Source of input	KVK Nagapattinam
Photos	
Average farmers yield	35t/ha.
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.6500/-
Parameters to be studied:	No. of fruits / plant, yield (q/ha), Gross cost, gross and net income, BCR
Parameters to be reported	Yield, gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Mr.K.Ragu SMS Horticulture

FLD No.:	**10**
Status (New proposal/2nd year /3rd year)	2nd year
Subject	Plant protection
Category:	Pulses
Crop/ enterprise:	Blackgram
Farming situation	Rainfed, Clay loam
Prioritized problem:	❖ High infestation of viral disease ❖ Poor yield ❖ Lack of awareness on IPM.

Title	**Demonstration on IPM against Viral diseases of Black gram – Pesticide application will be done through Drone Technology**
Technology to be demonstrated	VBN 6- Pesticide application will be done through Drone Technology
Hybrid or Variety:	Variety
Source of Technology:	TNAU CPG 2020
Description	-
Potential yield	12 q/ha
Critical input, quantity and cost	Imidacloprid 600 FS@5 ml/Kg , Yellow sticky traps , Neem formulation @ 3 ml / litre
Farmers practice	Pesticide and fungicide spray
Source of input	Grenicon Agrotech private LTD
Photos	
Average farmers yield	7q/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.27500/-
Parameters to be studied:	Grain yield, Pest incidences and BCR
Parameters to be reported	Grain yield, Pest incidences and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	DR.K.Chandrasekar and Dr. V.Kannan

FLD No.:	**11**
Status (New proposal/2nd year /3rd year)	1st year
Subject	Plant protection
Category:	oilseeds
Crop/ enterprise:	Ground nut
Farming situation	Rainfed, sandy loam
Prioritized problem:	❖ High infestation of Pest and disease

	❖ Poor yield ❖ Lack of awareness on IPDM.
Title	**Demonstration of IPDM in Groundnut**
Technology to be demonstrated:	G7
Hybrid or Variety:	Variety
Source of Technology:	TNAU CPG 2020
Description	-
Potential yield	18 q/ha
Critical input, quantity and cost	*Bacillus subtilis – 2 kg, Trichoderma asperellum – 2 kg,* Pheromone trap – 10 No, Spodaptera lure – 10No, Helilure – 10 No, Yellow sticky trap – 5 No, Field board – 1 No
Farmers practice	Pesticide and fungicide spray
Source of input	Grenicon Agrotech private LTD
Photos	-
Average farmers yield	13q/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.20000
Parameters to be studied:	Percent infestation, % disease index, Yield Q/ha, Benefit Cost Ratio
Parameters to be reported	Percent infestation, % disease index, Yield Q/ha, Benefit Cost Ratio
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr.K.Chandrasekar and Dr. V.Kannan

FLD No.:	**12**
Status (New proposal/2nd year /3rd year)	1st year
Subject	Plant protection
Category:	vegetables
Crop/ enterprise:	Snake gourd
Farming situation	Rainfed, sandy loam
Prioritized problem:	❖ High incidence of Fruit fly, Mosaic. Poor yield, Lack of awareness on IDPM practices
Title	**Demonstration of IPDM in Snake gourd**
Technology to be demonstrated:	Hybrid – Mahyco-1
Hybrid or Variety:	Variety

Source of Technology:	TNAU CPG 2020
Description	-
Potential yield	18 q/ha
Critical input, quantity and cost	Fruit fly trap , Neem oil, *Bacillus thuringiensis var kurstaki , Trichoderma viride*
Farmers practice	Pesticide and fungicide spray
Source of input	KVK, Grenicon Agrotech private LTD
Photos	-
Average farmers yield	62 qtl/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.25,000
Parameters to be studied:	Percent pest & disease incidence, % Disease index, Yield Q/ha, Benefit Cost Ratio
Parameters to be reported	Fruit yield, gross cost, gross and net income, BCR.
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr.K.Chandrasekar and Mr.K.Ragu

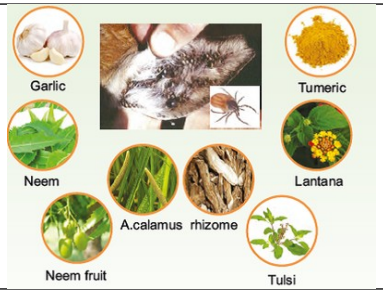
FLD No.:	**13**
Status (New proposal/2nd year /3rd year)	1st year
Subject	Plant protection
Category:	Mulberry
Crop/ enterprise:	Mulberry
Farming situation	Rainfed, sandy loam
Prioritized problem:	❖ Lack of awareness on IDM practices
Title	**Demonstration of IDM against root rot in Mulberry**
Technology to be demonstrated:	V1
Hybrid or Variety:	Variety
Source of Technology:	TNAU, CPG Horticulture 2020
Description	-
Potential yield	18 q/ha
Critical input, quantity and cost	*Trichoderma viride* , *Bacillus subtilis*, green manure crop
Farmers practice	Pesticide and fungicide spray
Source of input	KVK

Photos	
Average farmers yield	600 qtl/ha
Season	Rabi 2022
No. of Demos (replications)	10
Total cost for the Demo	Rs.25,000
Parameters to be studied:	Percentage disease index, Yield Q/ha, Benefit Cost Ratio
Parameters to be reported	Percentage disease index, Yield Q/ha, Benefit Cost Ratio
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Dr.K.Chandrasekar and Dr.S.Muthukumar

FLD No.	**14**
Status (New proposal/2nd year /3rd year)	NEW
Subject	Veterinary
Category:	Breeding management
Crop/ enterprise:	Goat
Farming situation	Semi intensive system
Prioritized problem:	Anoestrum , Delay in breeding cycle.
Title	**Demonstration of Estrus synchronization by Vaginal sponges in goat**
Technology to be demonstrated:	Application and usage of vaginal sponges in estrus synchronization, farm profitability and timed breeding.
Hybrid or Variety:	-
Source of Technology:	CSWRI, 2010
Description	Avikesil-s (Progesterone sponge-PMSG protocol) is an effective practice to induce fertile estrus in anoestrus does, in this regards, sponge is kept for 14 days followed by PMSG injection 200IU this increases release of more ova- results Multiple births were higher . This practice of estrus induction is profitable as it would give extra kids from problematic does
Potential yield	-

Critical input, quantity and cost	Sponges, Speculum, Plunger and lotion etc
Farmers practice	No intervention/
Source of input	CSWRI
Photos	
Average farmers yield	-
Season	Throughout the year
No. of Demos (replications)	10
Total cost for the Demo	15000
Parameters to be studied:	Conception rate, BCR, Kidding Percentage
Parameters to be reported	Conception rate, BCR, Kidding Percentage
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-AH, PP & PC

FLD No.:	**15**
Status (New proposal/2nd year /3rd year)	NEW
Subject	Ectoparasite management in Dairy cattle
Category:	Tick infestation management
Crop/ enterprise:	Dairy cattle rearing
Farming situation	Semi Intensive rearing
Prioritized problem:	Tick infestation, high cost of available acaricides
Title	**Demonstration Ethno veterinary practices to manage Tick infestation**
Technology to be demonstrated:	Effect of ethno veterinary formulation against tick and other external parasitic control as cost effective means of management.
Hybrid or Variety:	EVM
Source of Technology:	NDDB (2012)

Description	**Materials Required:** Garlic-10 bulbs, Neem leaves -01 handful, Neem fruit-01 handful, Acorus rhizome-10g, Turmeric powder-20g, Lantana leaves-01 handful, Thulasi leaves-01 handful. **Method of preparation:** Blend all the above ingredients and add one litre of clean water, filter it and finally transfer to a bottle attached to a sprayer. **Method of administration:** Spray on the entire body of the animal also sprays on any cracks and crevices in the Goat shed. Repeat once a week till the condition resolves. Do the application only during sunny part of the day
Potential yield	-
Critical input, quantity and cost	Garlic-10 bulbs, Neem leaves -01 handful, Neem fruit-01 handful, Acorus rhizome-10g,Turmeric powder-20g, Lantana leaves-01 handful, Thulasi leaves-01 handful.
Farmers practice	No intervention
Source of input	Local market
Photos	
Average farmers yield	-
Season	Throughout the year
No. of Demos (replications)	10
Total cost for the Demo	9000
Parameters to be studied:	**BCR, Efficiency,**
Parameters to be reported	**BCR, Efficiency,**
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-AH, PP & PC

FLD No.:	**16**
Status (New proposal/2nd year /3rd year)	New

Subject	Ectoparasite management in Dairy cattle
Category:	Tick infestation management
Crop/ enterprise:	Dairy cattle rearing
Farming situation	Semi Intensive rearing
Prioritized problem:	External parasitic infestation,
Title	**Demonstration of Tick shield in controlling external parasites in dairy animals**
Technology to be demonstrated:	Tick shield on controlling external parasitic infestation.
Hybrid or Variety:	-
Source of Technology:	TRPVB,TANUVAS
Description	Tick shield is Ivermectine based spot on for the tick infestation in cattle. Apply the tick shield spot on over the nape of neck to tail in 10 spots and allow for absorption for 15v minutes.
Potential yield	-
Critical input, quantity and cost	**Tick shield- 3 Nos/cow*3 cow**
Farmers practice	Deltamethrin
Source of input	Local market
Photos	-
Average farmers yield	-
Season	Throughout the year
No. of Demos (replications)	10
Total cost for the Demo	RS 10000
Parameters to be studied:	**Disease incidence, BCR,**
Parameters to be reported	**Disease incidence, BCR,**
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-AH, PP & PC

FLD No.:	**17**
Status (New proposal/2nd year /3rd year)	New
Subject	Animal Husbandry
Category:	Livestock
Crop/ enterprise:	Poultry
Farming situation	-
Prioritized problem:	Poor weight gain, lack of knowledge on scientific practices, low yielding varieties.
Title	**Demonstration of Naked neck poultry under backyard system of rearing in Nagapattinam district**

Technology to be demonstrated:	Day old chicks of Naked neck desi bird will be given along with necessary feeding advice and inputs for a month (Feed, drinker, waterer), There after performance for 4 months will be recorded.
Hybrid or Variety:	Variety
Source of Technology:	TANUVAS, 2021
Description	Naked neck chicks performance under backyard of coastal zone (Nagapattinam) will be studied for the period of four months. during this period all the scientific measures of feeding, brooding, watering, therapeutic managements will be demonstrated and few of the input materials will be supplied as initial support. As documented feed conversion ratio and tenderness of the meat is of good.
Potential yield	Body weight gaain- 1.3 Kg at 8th week and 1.8 Kg at 12th week.
Critical input, quantity and cost	**Chick- 50 Nos, Feeder, drinker, Brooder feed** Rs 6000/unit
Farmers practice	**ND backyard rearing**
Source of input	Local market
Photos	 
Average farmers yield	300 g – 500 g at 8th week and 750 g – 1.0 Kg at 12th week.
Season	Throughout the year
No. of Demos (replications)	10
Total cost for the Demo	Rs 60000
Parameters to be studied:	Body weight , **Disease incidence, BCR,**
Parameters to be reported	Body weight, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS-AH, PP & PC

FLD No.:	**18**
Status (New proposal/2nd year /3rd year)	New
Subject	Fisheries Science
Category:	Feeding management
Crop/ enterprise:	Freshwater fish
Farming situation	Canal irrigation, clayey loam

Prioritized problem:	• There is a lack of awareness among farmers regarding preparation and usage of farm made feeds • Feed based fish culture is not practiced among inland fish farmers
Title	**Demonstration of low cost balanced farm made fish feed**
Technology to be demonstrated:	Preparation of Farm made feed
Hybrid or Variety:	
Source of Technology:	CIFA 2011
Description	Demonstration on how to prepare farm made feeds using locally available ingredients.
Potential yield	2 tons/acre
Critical input, quantity and cost	Ingredients For Feed Preparation
Farmers practice	Farmers dont use fish feed in culture
Source of input	KVK
Photos	
Average farmers yield	<500 kgs/acre
Season	Year round
No. of Demos (replications)	3
Total cost for the Demo	Rs.21000
Parameters to be studied:	Body weight, yield and yield increase, economics
Parameters to be reported	Body weight, yield and yield increase, economics
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Fish Extn) and PC, KVK

FLD No.:	**19**
Status (New proposal/2nd year /3rd year)	New
Subject	Fisheries Science
Category:	Brackish water
Crop/ enterprise:	Crab
Farming situation	clayey loam
Prioritized problem:	• Survival rate is very less

	• Less awareness in nursery rearing of crab instar • lack of awareness among farmers regarding scientific culture
Title	**Demonstration of Nursery rearing of Crab in saline water**
Technology to be demonstrated:	Nursery rearing of crab instar to crablet in saline water for better survival rate.
Hybrid or Variety:	Variety
Source of Technology:	SAU 2011
Description	Demonstration on nursery rearing of crab instar.
Potential yield	400 Kgs/acre
Critical input, quantity and cost	Crab instar, feed
Farmers practice	Farmers don't practices nursery rearing of Crab culture
Source of input	RGCA
Photos	 
Average farmers yield	<250 kg/acre
Season	Year round
No. of Demos (replications)	3
Total cost for the Demo	Rs.45000
Parameters to be studied:	Survival rate,Body weight, yield and yield increase, economics
Parameters to be reported	Survival rate, Body weight, yield and yield increase, economics
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Fish Extn) and PC, KVK

FLD No.:	**20**
Status (New proposal/2nd year /3rd year)	New
Subject	Extension
Category:	ICT
Crop/ enterprise:	Inland Fish Farming
Farming situation	Canal irrigation, clayey loam

Prioritized problem:	Lack of knowledge on Inland fish farming Less awareness on usage of ICT tools among farming community
Title	**Demonstration of Matsya Setu application among Inland Fish farmers**
Technology to be demonstrated:	Demonstration on various interface options available in the application
Hybrid or Variety:	
Source of Technology:	CIFA 2021
Description	Demonstration on how to operate the application to gather knowledge on inland fish culture
Potential yield	
Critical input, quantity and cost	Technical manual and leaflets
Farmers practice	Farmers acquire knowledge from fellow farmers
Source of input	KVK
Photos	
Average farmers yield	<500 kg/acre
Season	Year round
No. of Demos (replications)	3
Total cost for the Demo	Rs.15000
Parameters to be studied:	Pre and Post knowledge evaluation
Parameters to be reported	Pre and Post knowledge evaluation
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	Mr. E.Hino Fernando, SMS (Fisheries Extension) and PC, KVK

FLD No.:	**21**
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Home Science
Category:	Value Addition

Crop/ enterprise:	**Fish wafers**
Farming situation	-
Prioritized problem:	1. Lack of awareness of value added fishery products. 2. Lack of knowledge of method of Fish wafers preparation. 3. Lack of /less popularization of Fish wafers although huge demand in market. 4. Low income of women and rural youth entrepreneurs.
Title	**Demonstration of Fish Wafers production**
Technology to be demonstrated:	Fish Wafers production
Hybrid or Variety:	Variety
Source of Technology:	TNJFU 2020
Description	Fish Wafers productionmethod by TNJFU was released during the year 2020. This method widely popularized among the coastal districts of Tamilnadu. Cooked, grinded fish meat blended with corn flour, tapioca flour, Soya flour and masala, spread in trays, steamed for 30 min, solar dried at 50-60°C to reach final moisture 8-10%, Self-life 24 months.
Potential yield/income	Rs.50/Kg
Critical input, quantity and cost	Fish, Salt, cornflour, tapioca flour, Soya flour and Packaging materials
Farmers practice	Conventional method
Source of input	Fish Landing Centers - **Akkaraipettai**, Nagapattinam.
Photos	
Average farmers yield/income	Rs.25/Kg
Season	June - Sep
No. of Demos (replications)	5
Cost per Demo (Rs.)	3500/-
Total cost for the Demo	17,500/-
Parameters to be studied:	Self life, Moisture content, Sensory Evaluation.
Parameters to be reported	Self life, Moisture content, Sensory Evaluation.
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main

Team members	**Dr. A. MATHIVANAN, SMS (Fish Processing Technology)**

FLD No.:	**:**	**22**
Status	:	New proposal
Subject	:	Home Science
Category	:	Value Addition
Crop	:	Mango
Farming situation	:	-
Prioritized problem	:	1. Lack of awareness of value added mango products. 2. Lack of knowledge of method of Mango RTS preparation. 3. Lack of /less popularization of Mango RTS although huge demand in market 4. Low income of women and rural youth entrepreneurs.
Title	:	**Demonstration of Mango RTS Beverage Production**
Technology to be demonstrated	:	Mango RTS Production
Hybrid or Variety	:	Variety
Source of Technology	:	TNAU 2019
Description	:	Mango RTS production technology was released by TNAU to increase the farmers income through value addition of mango. Although the mango cultivable area is very high in Nagapattinam district but the adoption of technology of value addition of mango is very less. So, this technology should be widely popularized among the farmers.
Potential yield/income	:	Rs.120/Lit.
Critical Inputs	:	Mango, Sugar, Acid and Packaging materials
Farmers practice	:	Conventional method
Source of Inputs	:	Mango farms, Nagapattinam.
Photos		

Ave. farmers yield or income	:	Rs.80/Lit.
Season		May – Sep.
Cost per Demo (Rs.)	:	Rs. 2,050/-
No. of Demos	:	5
Total cost for the Demo/FLD	:	Rs. 10,250/-
Parameters to be studied	:	Self life, TSS, Sensory Evaluation.
Parameter to be reported	:	Self life and Sensory Evaluation
Source of funding (KVK-Main/TSP/SC SP/ Project/Others (specify)	:	KVK Main
Team members		**Dr. A. MATHIVANAN, SMS (Fish Processing Technology)**

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	Blackgram	Lack of awareness on ICM practices	ICM	Variety	VBN 8, VBN 9	TNAU, 2016	Seeds TNAU Pulse wonder Yellow sticky trap. Bacillus subtills Azadiractin	10 kg 2 kg 5 Nos 1 kg 200 ml	Rs.3600/-	50	1,80,000	Pod numbers, Yield (kg/ha), Economics	Dr. V. Kannan (Agronomy), Mr. K. Ragu (Hort) and Mr. V. Gnanabharathi, PA(T)
Pulses	Greengram	Lack of	ICM	Variety	VBN 4	TNAU,	Seeds	10 kg	Rs.3600/-	50	1,80,00	Pod	

		awarenes s on ICM practices				2020	TNAU Pulse wonder Yellow sticky trap. Bacillus subtills Azadiractin	2 kg 5 Nos 1 kg 200 ml			0	numbe rs, Yield (kg/ha), Econo mics	Dr. V. Kannan (Agrono my), Mr. K. Ragu (Hort) and Mr. V. Gnanab harathi, PA(T)
	Total									100	3,60,00 0		

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

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrate d	Specify Hybrid or Variety	Name of the Hybri d or Variet y	Source of Technology	Name of critical input	Qty per Dem o	Cost per Demo (Rs)	No. of Dem o	Total cost for the Demo (Rs.)	Parameter s to be studied	Team member
Oil seeds	Groundnu t	Lack of awarenes s on ICM practices	ICM	Variet y	VRI 8	TNAU 2016	Seeds, Groundnu t Rich,	40 kg 2 kg	Rs. 500 0	25	1,20,00 0	Pod numbers , Pod Yield	Dr. V. Kannan (Agronomy), Mr. K. Ragu (Hort) and Mr. V. Gnanabharath i, PA(T)
	Total										1,20,00 0		

10. Special Programmes 2022-23

S. No.	Category/	Prioritized problem	Title of	Source	No. of	Area	Details of	Total cost	Names of the

	Crop or enterprise		Technology		Demo	(ha)/ Units	critical inputs	involved (Rs.)	team members involved
1	IFS	-	-	-	-	-	-	-	-
2	EDP	1. Lack of awareness of value addedfishery products. 2. Lack of knowledge of different method of Fish Cutlets preparation. 3. Lack of /less popularization of Fish Cutlets although huge demand in market 4. Low income of women and rural youth entrepreneurs.	Demonstration of Fish Cutlets preparation	TNJFU 2020	5	-	Fish, Potato, Spices, Salt, Batter mix and Packaging materials	36,000	Dr. A. Mathivanan, SMS (Fish Processing Technology)
3	FFS	Lack of awareness on scientific shrimp farming	Sustainable Shrimp Culture Technology	TNJFU	1	-	Training and demonstration	30,000	Mr.E.Hino Fernando and Dr. P.Chidambaram, PC
4	NFDB	-							
5	SERP	-							

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	Egg Hatchery unit- Common Service Centre	National Banking for Agriculture and Rural	One year	2021-22	--	1.25	--	Dr.S.Muthukumar,

		Development						SMS(AH)
2	LEDP- Poultry farming(other Than Chicken) to vulnerable women farmers	National Banking for Agriculture and Rural Development	One year	2021-22	150 nos. (5 batch)	6.12	--	Dr.S.Muthukumar, SMS(AH)
3	Skill Training-Goat farming in Value chain Integration for Returnee migrants of Nagapattinam Dt.	National Banking for Agriculture and Rural Development	One year	2021-22	50 nos.	3.60	--	Dr.S.Muthukumar, SMS(AH)
4	Goat Breeding unit	National Banking for Agriculture and Rural Development	One year	2021-22	360 sq. ft.	18.05	--	Dr.S.Muthukumar, SMS(AH)
5	Milky Mushroom Production unit	National Banking for Agriculture and Rural Development	One year	2020-21	525 sq. ft	1.50	--	Dr.K.Chandrasekar, SM(PP)
6	Mushroom Spawn production unit	National Banking for Agriculture and Rural Development	One year	2020-21	525 sq. ft.	0.50	--	Dr.K.Chandrasekar, SM(PP)
7	Training-Scientific Bee Keeping	National Bee Board	One year	2021-22	50 nos. 7 days – 2 batch	3.62	--	Dr.K.Chandrasekar, SM(PP)
8	STRY-Training on Mushroom Production Technology	State Agriculture Extension Management Training Institute	One year	2021-22	30 nos.	0.42	--	Dr.K.Chandrasekar, SM(PP)
9	STRY Training on Organic farming	State Agriculture Extension Management Training Institute	One year	2021-22	25 nos.	0.42	--	Dr.V.Kannan, SMS(Agronomy)
10	Skill Training- Preparation of Dry fish and marketing & Fish Amino Acid preparation and application- 3 days	Central Institute of Fisheries Technology	One year	2021-22	20 nos.	1.00	--	Dr.A.Mathivanan, SMS(FPT)
11	Capacity Building Training-Profitable Dairy farming	Indian Council of Agricultural Research	One year	2021-22	40 farmers /batch (3 days) – 5 batch	2.00	--	Dr.S.Muthukumar, SMS(AH)
12	Capacity building Training programme on Dairy farming to women entrepreneurs	National Commission for Women	One year	2021-22	60 nos. (5 days – 2 batch)	3.44	--	Dr.S.Muthukumar, SMS(AH)
13	Establishment of IFS model farm at KVK	Tamil Nadu Dr.J.Jayalalithaa Fisheries University	One year	2021-22	0.2 ha	8.00	--	Dr.A.Gopalakannan, PC
14	Establishment of Mini Fish	Central Institute of	One year	2021-22	200 sq. ft.	0.30	--	Dr.A.Mathivanan,

	Processing Unit at KVK	Fisheries Technology						SMS(FPT)
15	Pulse Production Technology	State Government	7 days	2022-23	-	-	1.40	Dr.V.Kannan, SMS(Agronomy)
16	IFS	NAARM	One year	2022-23	-	-	2.50	Mr.K.Ragu, SMS(Hoticulture)
17	Integrated Fish farming	NAARM	One year	2022-23	-	-	2.50	Mr.E.Hino Fernando, SMS(Fisheries Extension)

11.2. Project details (Use one table per project)

Project No. 1

Funding Agency	National Banking for Agriculture and Rural Development
State/Central/Over Seas	Central
Title	Egg Hatchery unit- Common Service Centre
Objectives	Common Service Centre
Study area	Livestock production management
Methodology	Hatcher y service with low cost
Team Members	Dr.S.Muthukumar, SMS(AH)
Budget (Rs. in Lakh)	1.25

Project No. 2

Funding Agency	National Banking for Agriculture and Rural Development
State/Central/Over Seas	Central
Title	LEDP- Poultry farming(other Than Chicken) to vulnerable women farmers
Objectives	Entrepreneurship development for women
Study area	Livestock production management
Methodology	Training and demonstration
Team Members	Dr.S.Muthukumar, SMS(AH)
Budget (Rs. in Lakh)	6.12

Project No. 3

Funding Agency	National Banking for Agriculture and Rural Development
State/Central/Over Seas	Central
Title	Skill Training-Goat farming in Value chain Integration for Returnee migrants of Nagapattinam Dt.

Objectives	Skill development for returnee migrant
Study area	Livestock production management
Methodology	Training and demonstration
Team Members	Dr.S.Muthukumar, SMS(AH)
Budget (Rs. in Lakh)	3.60

Project No. 4

Funding Agency	National Banking for Agriculture and Rural Development
State/Central/Over Seas	Central
Title	Goat Breeding unit
Objectives	Entrepreneurship development through Skill training
Study area	Livestock production management
Methodology	Entrepreneurship development for women
Team Members	Dr.S.Muthukumar, SMS(AH)
Budget (Rs. in Lakh)	18.05

Project No. 5

Funding Agency	National Banking for Agriculture and Rural Development
State/Central/Over Seas	Central
Title	Milky Mushroom Production unit
Objectives	Entrepreneurship development
Study area	Home science
Methodology	Training and Demonstration
Team Members	Dr.K.Chandrasekar, SMS(PP)
Budget (Rs. in Lakh)	1.50

Project No. 6

Funding Agency	National Banking for Agriculture and Rural Development
State/Central/Over Seas	Central
Title	Mushroom Spawn production unit
Objectives	Skill development
Study area	Home science and Human nutrition
Methodology	Training and Demonstration
Team Members	Dr.K.Chandrasekar, SMS (PP)
Budget (Rs. in Lakh)	0.50

Project No. 7

Funding Agency	National Bee Board
State/Central/Over Seas	
Title	Training-Scientific Bee Keeping
Objectives	Skill development among the farmers
Study area	Scientific Bee Keeping
Methodology	Training and Demonstration
Team Members	Dr.K.Chandrasekar, SMS (PP)
Budget (Rs. in Lakh)	3.62

Project No. 8

Funding Agency	State Agriculture Extension Management Training Institute
State/Central/Over Seas	State
Title	STRY-Training on Mushroom Production Technology
Objectives	Skill development among Rural youth
Study area	Home science and Human nutrition
Methodology	Training and Demonstration
Team Members	Dr.K.Chandrasekar, SMS (PP)
Budget (Rs. in Lakh)	0.42

Project No. 9

Funding Agency	State Agriculture Extension Management Training Institute
State/Central/Over Seas	State
Title	STRY Training on Organic farming
Objectives	Skill development among the farmers
Study area	Home science and Human nutrition
Methodology	Training and Demonstration
Team Members	Dr.V.Kannan, SMS (Agronomy)
Budget (Rs. in Lakh)	0.42

Project No. 10

Funding Agency	Central Institute of Fisheries Technology
State/Central/Over Seas	Central

Title	Skill Training- Preparation of Dry fish and marketing & Fish Amino Acid preparation and application- 3 days
Objectives	Skill development among the SHG members
Study area	Home Science – Value Addition
Methodology	Training and Demonstration
Team Members	Dr.A.Mathivanan, SMS (FPT)
Budget (Rs. in Lakh)	1.00

Project No. 11

Funding Agency	Indian Council of Agricultural Research
State/Central/Over Seas	Central
Title	Capacity Building Training-Profitable Dairy farming
Objectives	Capacity Building
Study area	Dairy farming
Methodology	Training and Demonstration
Team Members	Dr.S.Muthukumar, SMS(AH)
Budget (Rs. in Lakh)	2.00

Project No. 12

Funding Agency	National Commission for Women
State/Central/Over Seas	Central
Title	Capacity building Training programme on Dairy farming to women entrepreneurs
Objectives	Capacity Building for women entrepreneurs
Study area	Dairy farming
Methodology	Training and Demonstration
Team Members	Dr.S.Muthukumar, SMS(AH)
Budget (Rs. in Lakh)	3.44

Project No. 13

Funding Agency	Tamil Nadu Dr.J.Jayalalithaa Fisheries University
State/Central/Over Seas	State
Title	Establishment of IFS model farm at KVK
Objectives	Technology transfer
Study area	Integrated Farming System
Methodology	Training and Demonstration

Team Members	Mr.E.Hino Fernando, SMS(Fisheries Extension)
Budget (Rs. in Lakh)	8.00

Project No. 14

Funding Agency	Central Institute of Fisheries Technology
State/Central/Over Seas	Central
Title	Establishment of Mini Fish Processing Unit at KVK
Objectives	Technology transfer
Study area	Home Science –Value Addition
Methodology	Training and Demonstration
Team Members	Dr.A.Mathivanan, SMS(AH)
Budget (Rs. in Lakh)	0.30

Funding Agency	Tamil Nadu Rural Transformation Projects(TNRTP)
State/Central/Over Seas	State govt.
Title	Pulse Production Technology
Objectives	Transfer of Technology
Study area	Pulses production enhancement
Methodology	Training and Demonstration to farmers
Team Members	Dr.V.Kannan, SMS(Agronomy)
Budget (Rs. in Lakh)	1.40

Funding Agency	NAARM
State/Central/Over Seas	Central
Title	Integrated Farming Technology
Objectives	Transfer of technology and Awareness creation
Study area	Integrated Farming Technology
Methodology	Training and Demonstration to farmers
Team Members	Mr.K.Ragu, SMS(Hoticulture)
Budget (Rs. in Lakh)	2.50

Funding Agency	NAARM
State/Central/Over Seas	Central
Title	Integrated Fish farming
Objectives	Transfer of technology and Awareness creation

Study area	Fish farming
Methodology	Training and Demonstration to farmers
Team Members	Mr.E.Hino Fernando, SMS(Fisheries Extension)
Budget (Rs. in Lakh)	2.50

Pulse Production Technology	State Government	7 days	2022-23	-	-	Dr.V.Kannan, SMS(Agronomy)

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	Names of the team members involved
1	ICM	Rice	Lack of knowledge on ICM and IPDM technologies	FLD	ICM in Rice	1	30	SMS(Agronomy)
2	ICM	Rice	Lack of knowledge on ICM Practices	FLD	Irrigation and weed management	1	40	SMS(Agronomy)
3	Organic farming	Vermi compost production	Lack of knowledge on composting technology	-	Farm waste management	1	30	SMS (Agronomy)
4	ICM	Pulses	Lack of knowledge on ICM technologies	FLD	ICM in pulses	1	30	SMS(Agronomy)
5	ICM	Groundnut	Lack of knowledge on ICM technologies	FLD	ICM in Oilseeds	1	40	SMS(Agronomy)
6	Organic farming	Waste management	Lack of knowledge on composting technology	-	Organic farming – input management	2	80	SMS(Agronomy)

7	ICM	Fodder crop	Lack of awareness for the cultivation of fodder crops.	-	Fodder crop cultivation	1	30	SMS(Agronomy)
8	ICM	Vegetables	Lack of awareness for the cultivation of Pandhal vegetables	OFT & FLD	ICM in Panthal Vegetables	1	30	Mr.K.Ragu, SMS(Horti)
9	ICM	Vegetables	Lack of awareness for the cultivation of Pandhal vegetables	OFT & FLD	Production technology of Vegetable crops	1	30	Mr.K.Ragu, SMS(Horti)
10	ICM	Vegetables	Lack of awareness for the cultivation of Grafting technologies	OFT & FLD	Grafting technology in fruits and vegetables	1	30	Mr.K.Ragu, SMS(Horti)
11	ICM	Mango	Lack of knowledge on ICM in Mango	FLD	ICM in Mango	1	30	Mr.K.Ragu, SMS(Horti)
12	ICM	Banana	Lack of knowledge on ICM in banana	OFT	Production technology of Banana	1	30	Mr.K.Ragu, SMS(Horti)
13	ICM	Vegetables	Lack of knowledge on ICM in Vegetable crops	OFT & FLD	Nursery preparation and seedling production in Vegetables	1	30	Mr.K.Ragu, SMS(Horti)
14	ICM	Flower crop	Lack of knowledge on ICM in flower crops	-	ICM in Flower crops	1	30	Mr.K.Ragu, SMS(Horti)
15	ICM	Mango	Lack of knowledge on ICM in Mango	FLD	Training and Pruning of fruit	1	30	Mr.K.Ragu, SMS(Horti)

					crops			
16	INM	Vegetable	Lack of knowledge on ICM in Vegetable crops	OFT & FLD	INM in Vegetable crops	1	30	Mr.K.Ragu, SMS(Horti)
17	INM	Mango	Lack of knowledge on ICM and INM in Mango	FLD	INM in Fruit crops	1	30	Mr.K.Ragu, SMS(Horti)
18	IPDM	Paddy	Lack of knowledge on IPDM in Paddy	FLD	IPDM in Paddy	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
19	IPDM	Pulses	Lack of knowledge on IPDM in pulses	FLD	IPDM in pulses	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
20	IPDM	Oilseeds	Lack of knowledge on IPDM in Oilseeds	FLD	IPDM in Oilseeds	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
21	IPDM	Cotton	Lack of knowledge on IPDM in cotton	OFT	IPDM in cotton	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
22	IPDM	Vegetables	Lack of knowledge on IPDM in vegetables	OFT & FLD	IPDM in vegetables	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
23	IPDM	Flowers	Lack of knowledge on IPDM in flowers	FLD	IPDM in flowers	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
24	IPDM	Fruit crops	Lack of knowledge on IPDM in Fruit crops	FLD	IPDM in Fruit crops	1	30	Dr.K.Chandrasekar, SMS (Plant Protection)
25	Livestock production	Goat	Lack of knowledge on Scientific goat farming	OFT	Scientific goat farming	2	60	SMS (AH) & PP
26	Livestock production	Poultry	Lack of knowledge on Desi bird rearing	FLD	Desi bird rearing	1	30	SMS (AH) & PP
27	Dairying	Dairy	Lack of knowledge on Value addition of milk	FLD	Value addition of milk	2	60	SMS (AH) & PP
28	IFS	IFS	Lack of knowledge on Integrated farming	FLD	Integrated farming	1	30	PC, SMS (AH) & PP
29	Livestock production	Poultry	Lack of knowledge on Alternate poultry farming	FLD	Alternate poultry farming	1	30	SMS (AH) & PP
30	Dairying	Milk value	Lack of knowledge on Value	-	Value	2	60	SMS (AH) & PP

		addition	addition of milk		addition of milk			
31	Livestock production	IFS	Lack of knowledge on Integrated farming	-	Integrated farming	1	30	SMS (AH) & PP
32	Fisheries	Carp Culture	Lack of knowledge on Carp Culture	OFT & FLD	Carp Culture techniques	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
33	Fisheries	Freshwater fish	Lack of knowledge on Freshwater fish culture	OFT & FLD	Freshwater fish culture technology	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
34	Fisheries	GIFT Tilapia	Lack of knowledge on GIFT Tilapia culture	OFT & FLD	GIFT Tilapia culture technology	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
35	Fisheries	Murrel	Lack of knowledge on Murrel culture	OFT & FLD	Murrel culture technology	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
36	Fisheries	Composite Fish	Lack of knowledge on Composite Fish culture	OFT & FLD	Composite Fish culture technology	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
37	Fisheries	Carp	Carp seed production technology	OFT & FLD	Carp seed production technology	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
38	Fisheries	Fish	Lack of knowledge on Fish culture in HDPE ponds	OFT & FLD	Fish culture in HDPE ponds	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
39	Fisheries	Ornamental fish	Lack of knowledge on Ornamental fish culture techniques	FLD	Ornamental fish culture techniques	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
40	Fisheries	IFS	Lack of knowledge on integrated Fish culture	FLD	Integrated fish farming	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
41	Fisheries	Shrimp	Lack of knowledge on Biofloc technology	FLD	Shrimp culture by Biofloc	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)

					Technology			
42	Fisheries	shrimp	Lack of knowledge on disease in shrimp culture	FLD	Disease management in shrimp farming	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
43	Fisheries	Carp	Lack of knowledge on disease in carp culture	-	Disease Management in carp Farming	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
44	Fisheries	Aquaponics	Unawareness of aquaponics technology	-	Aquaponics technology	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
45	Fisheries	Sea weed	Lack of knowledge on Spirulina culture	-	Spirulina culture	1	30	Mr.E.Hino Fernando , SMS(Fisheries Extension)
46	Value addition	Value Added Fisheries Products	Lack of popularization of Value added fishery Products although huge demand in the market		Masmin production	5	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
47	Value addition	Value Added Fisheries Products	Lack of popularization of Value added fishery Products although huge demand in the market	OFT	Fish Cutlets preparation	1	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
48	Value addition	Value Added Fisheries Products	Lack of popularization of Value added fishery Products although huge demand in the market	FLD	Fish Wafers preparation	3	40	Dr. A. MATHIVANAN,SMS (Fish Processing
49	Value addition	Value added Mango products	Lack of popularization of Value addedMango Products although huge demand in the market	OFT	Fish Cutlets preparation	1	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
50	Value addition	Value added Mangoproducts	Lack of popularization of Value addedMango Products although huge demand in the	FLD	Fish Wafers preparation	3	40	Dr. A. MATHIVANAN,SMS (Fish Processing

			market					Technology)
51	Value addition	Value added Mangoproducts	Lack of popularization of Value addedMango Products although huge demand in the market	FLD	Mango Squash preparation	1	40	Dr. A. MATHIVANAN,SMS (Fish Processing
52	Value addition	Value added Mango products	Lack of popularization of Value addedMango Products although huge demand in the market	FLD	Mango RTS preparation	1	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
53	Value addition	Value added Mango products	Lack of popularization of Value addedMango Products although huge demand in the market	-	Mango Pickle preparation	2	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
54	Value addition	Value added fishery products	Lack of popularization of Value added fishery Products although huge demand in the market	OFT	Fish Rolls preparation	1	40	Dr. A. MATHIVANAN,SMS (Fish Processing
55	Value addition	Value added fishery products	Lack of popularization of Value added fishery Products although huge demand in the market	OFT	Hygienic Dry Fish & Masala dry fish preparation	3	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
56	Value addition	Value added fishery products	Lack of popularization of Value added fishery Products although huge demand in the market	OFT	Freshwater fishes - Value added Products	4	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
57	Value addition	Value added fishery products	Lack of popularization of Value added fishery Products although huge demand in the market	OFT	Fish/Prawn Pickle preparation	2	40	Dr. A. MATHIVANAN,SMS (Fish Processing
58	Value addition	Value added rice products	Lack of popularization of ValueaddedRiceproducts	-	Traditional Rice Value	2	40	Dr. A. MATHIVANAN,SM

			although huge demand in the market		added products preparation			S (Fish Processing Technology)
59	Value addition	Value added groundnut products	Lack of popularization of ValueaddedGroundnutproducts although huge demand in the market	-	Groundnut Value Addition Technology	2	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
60	Value addition	Value added Millet products	Lack of popularization of ValueaddedMilletproducts although huge demand in the market	-	Millet Value added products preparation	2	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)

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	Seed production	Paddy	Lack of knowledge on seed production	FLD	Seed production technologies in Rice	1	25	SMS(Agronomy)
2	Production of Inputs	Vermi compost	Lack of knowledge on Waste management	-	Production of organic inputs	1	25	SMS(Agronomy)
3	ICM	Vegetable crop	Lack of knowledge on quality seedling production	OFT & FLD	Nursery preparation and seedling	1	25	Mr.K.Ragu, SMS(Horti)

					production in Vegetables			
4	ICM	Vegetable crop	Lack of knowledge on Grafting technologies	FLD	Grafting technology in fruits and vegetables	1	25	Mr.K.Ragu, SMS(Horti)
5	EDP	Bee keeping	Lack of knowledge on Beekeeping	-	Beekeeping	1	25	Dr.K.Chandrasekar, SMS (Plant Protection)
6	EDP	Mushroom	Lack of knowledge on Mushroom	-	Mushroom Production Technology	1	25	Dr.K.Chandrasekar, SMS (Plant Protection)
7	EDP	Silkworm	Lack of knowledge on Silkworm Production	-	Silkworm Production Technology	1	25	Dr.K.Chandrasekar, SMS (Plant Protection)
8	EDP	Dairying	Lack of knowledge on Milk value addition	FLD	Milk value addition	1	30	SMS (AH) & PP
9	Livestock production	Dairy	Lack of knowledge on Scientific dairy farming	FLD	Scientific dairy farming	1	30	SMS (AH) & PP
10	Livestock production	Animal husbandry	Lack of knowledge on ethno medicine	-	Ethno Veterinary Practices in Controlling Livestock Diseases	2	50	SMS (AH) & PP
11	Dairying	Dairy	Lack of	-	Scientific	1	30	SMS (AH) & PP

			knowledge on Scientific dairy farming		dairy farming			
12	Fisheries	Seed production	Lack of knowledge on seed production technology of carp	FLD	Induced seed production technology of carp	1	30	SMS (Fish. Extn.)
13	Fisheries	Ornamental fish	Lack of knowledge on Ornamental fish culture	FLD	Ornamental fish culture technology	1	30	SMS (Fish. Extn.)
14	Fish Handling	Value Addition	Unhygienic handling of fishes in On-board, Landing centers & in Fish farms	-	Hygienic fish handling practices	2	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
15	Fishing practices	Value Addition	Unhygienic handling of fishes in On	-	Responsible Fishing practices	1	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)
16	Fish Handling	Value Addition	Unhygienic handling of fishes in On	-	Hygienic farm fish handling practices	2	40	Dr. A. MATHIVANAN,SMS (Fish Processing Technology)

12.3. Trainings for Extension Personnel planned during 2022-23

S. No	Thematic area	Training Course Title	No. of Courses
1	Crop Production	Productivity enhancement in field crops	1
2	INM	Integrated Nutrient management	1

3	Nursery Production	Grafting technology in fruits and vegetables	1
4	Integrated pest and disease management	Ecological Engineering IPM in Paddy	1
5	IPM	IPDM in cotton	1
6	IPM	IPDM in Pulses	1
7	Livestock production and management	Advanced field diagnostic kit usages developed by SVU	1
8	Fisheries	Advanced aquaculture technologies	1
9	Fisheries	Scientific carp culture techniques	1

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

S.No.	Training title	Duration (Days)	No. of programmes	Sponsoring agency
1	Beekeeping	7	2	National Bee Board
2	Silk worm rearing	5	2	NABARD
3	Friends of Coconut Tree (FoCT) Training	3	2	CDB
4	Goat farming value chain integration	3	1	NABARD
5	Value Addition in Fishes	3	2	CIFT

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	ICM	ICM	2	ATMA Farmer Members	60	NADP-ATMA	SMS Agronomy
2	ICM	Scientific Cashew Cultivation Technology	2	Farmer and farm woman	100	DCCD Kochin	SMS Horticulture
3	Bee keeping	Scientific Beekeeping	2	Farmer and farm woman	50	NBB	SMS(Plant Protection)
4	Livestock production	Goat farming value chain integration	2	Farmer and farm woman	60	NABARD	SMS (AH) & PP
5	Dairying	Integration of dairy farm with fisheries	2	Farmer and farm woman	60	NABARD	PC, SMS (AH) & PP

***SHGs, NYKs, Women, Youth etc.**

13. Extension programmes planned during 2022-23

S. No.	Extension programme	No. of programmes	No. of Participants	Team member involved
1	Advisory Services	500	500	PC, All SMS and PAs
2	Diagnostic visits	150	150	PC, All SMS and PAs
3	Field Day	10	250	PC, All SMS and PAs
4	Group discussions	5	100	PC, All SMS and PAs
5	Kisan Ghosthi	-	-	-
6	Film Show	50	200	PC, All SMS and PAs
7	Kisan Mela	2	1000	PC, All SMS and PAs
8	Exhibition	2	1000	PC, All SMS and PAs
9	Scientists' visit to farmers field	100	200	PC, All SMS and PAs
10	Plant/Soil health/Animal health camps	5	500	PC, All SMS and PAs
11	Ex-trainees Sammelan	-	-	-
12	Farmers' seminar/workshop	2	200	PC, All SMS and PAs
13	Method Demonstrations	15	450	PC, All SMS and PAs
14	Celebration of important days	5	250	PC, All SMS and PAs
15	Special day celebration	5	250	PC, All SMS and PAs
16	Exposure visits	5	200	PC, All SMS and PAs
17	Technology week	1	700	PC, All SMS and PAs
18	FFS	1	30	PC, All SMS and PAs
19	Farm innovators meet	1	100	PC, All SMS and PAs
20	Awareness programs	2	200	PC, All SMS and PAs
21	Lecture delivered	30	150	PC, All SMS and PAs
22	TV/Radio Programme	50	-	PC, All SMS and PAs
23	News clips	50	-	PC, All SMS and PAs
24	Popular Articles	15	-	PC, All SMS and PAs
25	Research Article	5	-	PC, All SMS and PAs
26	Extension Literatures	20	500	PC, All SMS and PAs
27	KMAS-m kisan portal	25	4000	PC, All SMS and PAs
28	Other Mobile Advisory service through Whats app	125	12500	PC, All SMS and PAs

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

14.1. Technological knowledge

S. No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
1	Crop cafeteria	Newly released crop varieties	1.0 ha	SMS(Agronomy) and SMS(Horticulture)
2	Micro Irrigation Cafeteria	Kitchen gardening and Nutri gardening	2 no.	SMS(Agronomy) and SMS(Horticulture)
3	Demonstration Units	Vermi compost production	2000 Kgs	PC and All SMS

		Azolla production	500 Kg	
		Quail	500 Nos	
		Backyard poultry- chicks	500 Nos	
		Goat kids	10 nos.	
		Milk production	500 lit	
		Moringa seedlings	1000 nos.	
		Teak seedlings	2000 nos.	
		Aquaponics - Vegetables	200 Kg	
		Gift Tilapia and Carp culture	1000 Kg	
		Coconut seedlings	3000 Nos	
		Fodder cafeteria- Fodder slips	5,000 Nos	
		Bacillus Subtilis production	1000 Kg	
		Panchkavya production	500 lit	
		Spawn production for Mushroom	500 pockets	
		Ornamental fish	500 nos.	
		Value Addition in fishes and other products	500 kg	
		Rice cum fish culture unit	0.2 ha	PC, SMS (Agronomy)
		Organic farming unit	0.8 ha	SMS (Agronomy)
4	Lab Analytical services	Soil and Water testing	275 +150 Nos.	Programme Asst. (Technical) & SMS (Agronomy)
5	Technology Week	Machine transplanting, power weeding, machine harvesting, SRI, Drum seeding, Micro irrigation, IPDM, Honey bee rearing, Vermicompost production Backyard poultry, Goat rearing, Fish culture Integrated Farming System Value Addition	1 No	PC, SMS (Agronomy) SMS (Horticulture) SMS (Agri. Entomology) SMS (Animal Husbandry) SMS (Fisheries Extension) SMS (Fish Processing Tech.) Programme Asst. (Tech), Farm Manager , PA (Computer)

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	Paddy seed	150 qtl	PC, FM, SMS(Agronomy)
2	Seeds	Fodder crop Seeds	3 qtl	SMS (Agronomy), FM

3	Planting materials	Fodder Slips	5000 nos.	SMS(Agronomy), FM
4	Planting materials	Moringa seedlings	1000 nos.,	SMS (Horticulture)
5	Planting materials	Mango saplings	200 nos.,	SMS (Horticulture)
6	Planting materials	Coconut seedling production	3000 nos.	SMS(Horticulture)
7	Planting materials	Tree seedling production	2000 nos.	SMS(Horticulture)
8	Livestock	Quail Unit	200 nos.	SMS(AH)
9	Livestock	Dairy unit- Milk	500 litres	SMS(AH)
10	Livestock	Goat rearing unit	10 kids	SMS(AH)
11	Livestock	IFS Unit	Fish-200 kg, Egg-100 nos., Duck-50 nos.	SMS(AH)
12	Bio products	Bacillus subtilis	1000 kg	SMS(Agri Ento)
13	Bio products	Panchakavya production	500 litres	SMS(Agri Ento)
14	Bio products	Fish Amino Acid	50 litres	SMS(Fish Processing Tech)
15	Mushroom	Spawn production	500 pockets	SMS(Agri Ento)
16	Bio products	Azolla	1000 kg	SMS(AH)
17	Apiculture	Bee hives	5 kg	SMS(Agri Ento)
18	Other inputs	Vermicompost	2000 kg	SMS(Agri Ento)
19	Fisheries	Fish farm pond unit	500 kg	SMS(Fisheries Extension), PC
20	Fisheries	Aquaponics	Fish-100 kg, Vegetables- 200 kg	SMS(Fisheries Extension), PC and SMS(Horticulture)
21	Fisheries	Ornamental fish unit	500 nos.	SMS(Fisheries Extension), PC
22	Value added products	Fish, Prawn, Mango, Millets	500 kg	SMS(Fish Processing Tech)

14.3. Technological Information

14.3.1. Technology backstopping to line departments

Sl. No	Category	Technological capsules / Number	Names of the team members involved
1	Agriculture	INM for Rice, pulses, groundnut, cotton, vegetables and fruits IPDM for Agriculture and Horticulture Crops	P.C, SMS(Agronomy) SMS(Horticulture) SMS(Agri. Entomology) SMS(Animal Husbandry) SMS(Fisheries Extension) SMS (Fish Processing Tech.)
2	Horticulture	Hi tech technologies for higher production in vegetables and fruits	
3	Agricultural Engineering	Mechanization in rice cultivation, groundnut, Coconut tree climber, Operation and maintenance of transplanters, vegetable transplanter, spading machine and sprayers	
4	Agricultural marketing	Strengthening of group approach -FPOs, Farmers club etc., Post harvest technologies and value addition of rice, pulses, groundnut, cotton, vegetables, fruits, dairy products and Fish products	

5	Department of Animal Husbandry	Conducting of Animal Health camp, Vaccination and Training programme	
6	Department of Fisheries	Training and demonstration to Fish farmers	
7	Soil health camp and Soil Advisory Services	Training, Demonstration of soil fertility management and advisory	SMS(Agronomy) and Programme Asst. (Technical)

14.3.2. Publications planned

S.No	Category of publication	Number	Names of the team members involved
1	Popular article	15	PC, All SMS
2	Research article	5	PC, SMS-Agronomy, SMS (Agri. Entomology), SMS (Fish processing Tech)
3	Technical bulletin	5	PC, All SMS
4	Seminar paper	5	PC, All SMS
5	Training Manual	5	PC, All SMS
6	Book	5	PC, All SMS
7	Booklet	5	PC, All SMS
8	Leaflet	10	PC, All SMS
9	Pamphlets	10	PC, All SMS
10	Folders	10	PC, All SMS

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	Department of Agriculture	Trainings and Guest lecturers to farmers and Farm women	10	-	PC, All SMS
2	Department of Agriculture	Farmers Seminar/workshop,	5	-	PC, All SMS
3	Department of Agriculture	Field diagnostic visit,	10	-	PC, All SMS
4	Department of Agriculture	Scientist visit to farmers field	5	-	PC, All SMS
5	Department of Horticulture	Trainings and Guest lecturers to farmers and Farm women	10	-	PC, All SMS
6	Department	Farmers	5	-	PC, All SMS

	of Horticulture	Seminar/workshop,			
7	Department of Horticulture	Field diagnostic visit,	10	-	PC, All SMS
8	Department of Horticulture	Scientific visit to farmers field	5	-	PC, All SMS
9	Department of Animal Husbandry	Skill Trainings, and Guest lecturers Exposure visit to farmers and Farm women	10	-	PC, All SMS
10	Department of Animal Husbandry	Diagnostic visit/ and Animal health camp	5	-	PC, All SMS
11	Department of Animal Husbandry	Scientist visit to farmers field	5	-	PC, All SMS
12	Department of Fisheries	Skill training, and Guest lecturers Farmers Exposure visit	5	-	PC, All SMS
13	TANUVAS-VUTRC	Scientific visit to farmers field	5	-	PC, All SMS
14	NABARD	Skill training, and Guest lecturers Farmers Exposure visit	5	-	PC, All SMS
15	IOB	Training and Farmers Exposure visit	10	-	PC, All SMS
16	TNRTP-Vazhnthu Kattuvom	Skill training, and Guest lecturers Farmers Exposure visit	6		All SMS

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.)
67,601	9,04,848	9,05,826	66,623

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 Production-Paddy	15000 kg	495000	PC,FM, SMS(Agronomy)

2	Fodder seeds	300 kg	105000	PC,FM, SMS(Agronomy)
3	Fodder Production	Green fodder 1.5 ton Fodder Slips 50000 nos.	5000, 50000	PC,FM, SMS(Agronomy)
4	Seedling production	Moringa -1000 nos., Mango saplings-200 nos.	10000, 6000	SMS (Horticulture)
5	Coconut seedling production	3000 nos.	200000	SMS (Horticulture)
6	Tree seedling production	1000 nos.	10000	SMS (Horticulture)
7	Bacillus subtilis	1000 kg	168000	SMS (Agri Ento)
8	Bee hives	5 kg	4000	SMS (Agri Ento)
9	Panchakavya production	500 litres	60000	SMS (Agri Ento)
10	Vermicompost	2000 kg	40000	SMS (Agri Ento)
11	Poultry-Chicks(1week old)	100 nos.	5000	SMS (AH)
12	Quail Unit	200 nos.	8000	SMS(AH)
13	Dairy unit	500 litres	22500	SMS(AH)
14	Goat rearing unit	5 kids		SMS(AH)
15	IFS Unit	Fish-200 kg, Egg-100 nos., Duck-50 nos.	30000, 5000 -	SMS(AH)
16	Azolla	500 kg	10,000	SMS(AH)
17	Fish farm pond unit	500 kg	75000	SMS(Fisheries Extension), PC
18	Aquaponics	Fish-100 kg, Vegetables- 200 kg	15000, 4000	SMS(Fisheries Extension), PC and SMS(Horticulture)
19	Fish/Prawn Pickle production unit	1000 kg	8,800//10 kg	SMS(Fish Processing Tech)
20	Fish Amino Acid production	50 lit.	5000	SMS(Fish Processing Tech)

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	Min soil testing lab	200	200	Programme Asst. (Technical) & SMS(Agronomy)
		Traditional lab	75	**75**	
		AAS	-	-	
2	Water		150	**150**	
3	Plant		-	-	
	Total		**425**	**425**	

18. Plan of activity for Institutional Farm

S.No.	Acivity	Area (ha)	Names of the team members involved
1.	Rice Seed Production-15000 kg	4.0 ha	FM, SMS(Agronomy)

2	Fodder crop seeds Seeds-300 kg	0.4 ha	FM, SMS(Agronomy) SMS(AH),
3	Fodder -Green fodder	0.4 ha	SMS(Agronomy), SMS(AH), FM,
4	Fodder Slips - 5000 nos	0.4 ha	SMS(Agronomy), FM,
5	Orchard – Mango, Guava	0.8 ha	SMS(Horti), FM

19. Demonstration units in KVK premises

S.No.	Name of Demo unit	Capacity for production (specify units)	Names of the team members involved
1.	Seed Production-Paddy – 4 ha	15000 kg	SMS(Agronomy), Farm Manager,
2	Fodder Production	Seeds-300 kg	SMS(Agronomy), SMS(AH) & Farm Manager,
3	Fodder Production	Green fodder- 1.5 ton	SMS(Agronomy), SMS(AH) & Farm Manager,
4	Fodder Production	Fodder Slips -5000 nos.	SMS(Agronomy), SMS(AH) & Farm Manager,
5	Seedlings production	Moringa -1000 nos.,	SMS(Horticulture)
6	Seedlings production	Mango saplings-200 nos.,	SMS(Horticulture)
7	Seedlings production	Guava saplings-200 nos.,	SMS(Horticulture)
8	Coconut seedling production	3000 nos.	SMS (Horticulture)
9	Teak seedling production	1000 nos.	SMS (Horticulture)
10	Bacillus subtilis	1000 kg	SMS (Agri Ento)
11	Bee hives	5 kg	SMS (Agri Ento)
12	Panchakavya production	500 litres	SMS (Agri Ento)
13	Vermicompost	2000 kg	SMS (Agri Ento)
14	Spawn production	500 pockets	SMS (Agri Ento)
15	Quail Unit	200 nos.	SMS(AH)
16	Dairy unit	500 litres	SMS(AH)
17	Goat breeding and rearing unit	10 kids	SMS(AH)
18	IFS Unit	Fish-1000 kg, Egg-100 nos., Duck-50 nos.	SMS(AH)
19	Micro Irrigation cafeteria-Kitchen garden	Vegetables 200 kg	SMS(Agronomy), PA(Tech)
20	Azolla	1000 kg	SMS (AH)
21	Fish farm pond unit	500 kg	SMS (Fisheries Extension), PC
22	Aquaponics	Fish-100 kg, Vegetables- 200 kg	SMS (Fisheries Extension), PC and SMS (Horticulture)
23	Fish/Prawn Pickle production unit	420 bottles/10 kg/single time	SMS (Fish Processing Tech)

24	Fish Amino Acid production	50 litres	SMS (Fish Processing Tech)

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

Activity	**Particulars**	**No. of farmers in database/ involved in activity/ downloads/ users etc**
Website	Link: www.kvknagapatinam.co.in	-
Mobile App	Name and link- --	-
ICT initiative	Creation of You tube channel is in progress	--
KVK portal (update status)	Infrastructure details & photos uploaded (no): 16 nos. Events uploaded: 939 News items submitted: nil	526
KVK mobile App of ICAR	Downloaded and used by scientists (no.)	--
Other mobile Apps in use by KVK	**Rice Expert system mobile app**	
mKisan of DAC & FW	3000 farmers registered for KMAS	3000
Social media		
a) WhatsApp groups	No. of groups/KVK: 7 nos.	620
b) Facebook	Link: -	-
c) Twitter	Handle name: -	-
Membership / participation in online digital platforms for services/ marketing etc.	-	-
KVK Blogs etc.	-	-
Collaboration with public/ private firms for audio/ video conferencing etc	Agency: MoU (yes/no): NO No. of programs done:	-
Any other (specify)		-

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	Aqua Culture	Sustainable Shrimp Culture Technology	30	0.30

Details of FFS

Title : Sustainable Shrimp Culture Technology
Area : 1 ha
No. of farmers : 30
Village : Paravai, Nagapattinam Block
Budget : Rs. 30,000

Lecture Schedules:

1.	Different types of shrimp culture technologies in India

2.	Site selection
3.	Farm design and Construction
4.	Pre stocking management of pond
5.	Selection of shrimp seed and stocking procedures
6.	Water quality management
7.	Shrimp feed and feed management
8.	Advanced shrimp culture techniques
9.	Shrimp diseases and management
10.	Bio security methods
11.	Harvesting
12.	Post harvest management
13.	Preparation of Value added shrimp products
14.	Economics of shrimp farming

Budget split-up:

S.No	Activities	Amount(Rs.)
1	Materials for product preparation (14x Rs. 750)	10,500
2	Training banner and preparation	2,000
3	Refreshment classes (14x30x30)	12,600
4	Training manual @ Rs 130/farmer for 30 farmers (30x120)	3,900
5	Field day	1,000
	Total	**30,000**

22. Details of Innovative Farmers network established:

Sl.No	Name and Address of innovative Farmers	Name of Innovation methodologies
1	Mr.Ravichandran, Puliyur, Nagapattinam block Cell No:	Modified Comb weeder both DSR and TPR
2	G. Mohanraj Yadhav Sangamangalam, Nagapattinam.	Traditional rice grower and land races conservation

	Cell No:	

23. Budget - Details of budget utilization (2021) up to31 March 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**	1,26,16,000	1,24,84,598	1,06,58,634
2	**Travelling Allowances**	1,40,000	1,40,000	1,40,000
	a) Field activities & programmes			
	b) Training programmes			
3	**Contingencies**			
A	***Office Contingencies***	4,95,000	4,50,000	4,49,911
B	***Technical Programmes including TSP/ SCSP***	11,85,000	10,16,000	10,16,000
	Total of Contingencies	**1680000**	**1466000**	**1465911**
	Sub Total of Recurring Items (1+2+3)	**14436000**	**14090598**	**12264545**
4	**NON-RECURRING CONTINGENCIES:**			
	Works	-	-	-
	Furniture& Equipment	-	-	-
	Vehicle	-	-	-
	TSP (creation of physical assets)	-	-	-
	SCSP Component (Creation of Physical assets)	4,05,000	4,05,000	4,05,000
	Sub Total of non-recurring Items (4)	**4,05,000**	**4,05,000**	**4,05,000**
5	**GRAND TOTAL**	**1,48,41,000**	**1,44,95,598**	**1,26,69,545**

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**	1,22,55,000
2	**Travelling Allowances**	1,50,000
a	Field activities & programmes	
b	Training programmes	
3	**Contingencies**	
	Office Contingencies	
a	Stationery, telephone, stamps and other expenditure on office running	5,00,000
b	POL, repair of vehicles, tractor and equipment including hiring of vehicle	
4	**Technical Programmes**	12,60,000
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)- 2,75,800/-	
g	Front Line Demonstration on major crops including oilseeds & pulses, fodder crops, animal husbandry, fisheries, etc.,- Rs. 4,13,900/-	
h	Kisan Mela /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	

S. No	Particulars	Budget Estimate for 2022-23
	Field School(FFS)	
l	Soil Health Card (SHC)	
m	Website/mobile app etc.	
	Total of Contingencies	**19,10,000**
	Total of Recurring Items	**1,41,65,000**
B	**NON-RECURRING ITEMS:**	
a	Works (Repairing of office building, farmers hostel and Staff quarters)	2,50,000
b	Vehicle (Jeep/Tractor/2 Wheeler)	-
c	Furniture	2,00,000
d	TSP (creation of physical assets)	-
e	SCSP Component (Creation of Physical assets)	3,00,000
	Total of Non-Recurring Items	**7,50,000**
	GRAND TOTAL (A+B)	**1,49,15,000**

Sd/-xxx

Signature of the Senior Scientist and Head of the KVK

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