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

ACTION PLAN 2023-24

1. General information about the Krishi Vigyan Kendra

1.1 Name of the KVK	ICAR KRISHI VIGYAN KENDRA, THENI (Hosted by : CENDECT)
Address	89-A/ B-3, West Street, Kamatchipuram (S.O), Theni District, TamilNadu- 625520
Phone	04546 247564
Fax	04546 247564
e-mail	cendectkvk@rediffmail.com
1.2. Name of host organization	CENTRE FOR DEVELOPMENT AND COMMUNICATION TRUST.
Address	West Street, Kamatchipuram (S.O), Theni District, TamilNadu- 625520
Phone	04546247245
e-mail	cendect@gmail.com
1.3. Year of sanction	Lr.No.4(14)/93-AE(I), 27.09.1994
1.4. Website of the KVK	www.kvktheni.org.in
Date of last update	18.04.2023

1.5. District map with location of the KVK
GPS reading (from Google Maps) of the Entrance of KVK
Eg: 9.863562, 77.451820

2. Details of staff as on date 31.03.2023

S. No.	Sanctioned post	Name	Discipline	Date of joining	Present pay scale
1	Senior Scientist & Head/ Programme Coordinator	Vacant	-	-	-
2	SMS1	Mr. P. Maheswaran	Agronomy	27/01/2017	56100-177500
3	SMS 2	Mr. M. Arunraj	Soil Science	25/05/2018	56100-177500
4	SMS 3	Mrs. M. Ramyasivaselvi	Home Science	25/01/2017	56100-177500
5	SMS 4	Dr. G. Rajaraman	Horticulture	26/12/2019	56100-177500
6	SMS 5	Mr. C. Sabarinathan	Extension	12/07/2021	56100-177500
7	SMS 6	Dr. V. Karthik Pandi	Plant Protection	06/10/2023	56100-177500
8	Farm Manager/T4	Mr. N. Raja	Farm Manager	14/09/2000	35400-112400
9	Programme Assistant/T4-1	Mrs. G. Winmathi	Computer	06/10/2018	35400-112400
10	Programme Assistant/T4-2	Dr. V. Sivasakthi	Animal Science	05/10/2022	35400-112400
11	Administrative Staff 1 (Assistant)	Mr.R. Patchaikannan	Assistant	03/01/1995	35400-112400
12	Administrative Staff 2 (Stenographer Grade III)	Mrs. M. Soundariya	Stenographer	17/06/2019	25500-81100
13	Driver/T1 – 1	Mr.M.Patchaikannan	Driver	01/01/2010	19900-63200
14	Driver/T1 – 2	Mr. A.Arockia Johnson	Driver	11/01/2017	19900-63200
15	Supporting Staff 1	Mr. K. Shankar Nehru	Supporting staff	01/06/2019	18000-56900
16	Supporting Staff 2	Mrs. Malarkodi	Supporting staff	01/06/2019	18000-56900

3. Details of SAC meeting(s) conducted during 2022-23:

Date(s) of SAC meeting(s) Conducted: 22.02.2023

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

Proposed date/month of SAC Meeting to be held in 2023-24: February 2024

S.No.	Name of the SAC Member	Action Taken
1. Mr. R. Venkatesh Farm Telecast, AIR, Madurai		
1.1	He suggested giving prior information Horticulture training Programme event details to the AIR Madurai	We have planned and scheduled the upcoming training details and send to the AIR, Madurai in advance.
1.2	To share the upcoming Training / Events details with AIR Madurai for wide spread of information.	We have planned to share the KVK activities regularly to AIR Madurai for large scale dissemination

S.No.	Name of the SAC Member	Action Taken
2. Dr. P. Geetharani, Professor & Head, ARS Vaigai Dam		
2.1	KVK should popularize the latest technology and newly releasing varieties of ARS, Vaigaidam)	We have planned to conduct FLD on VGD 1 Paddy variety We are planned to conduct exhibition on latest technologies and newly releasing varieties for wider outreach
2.2	To give more training on "Seed Production technology & seed certification procedure" to the farmers.	We have planned to conduct one vocational training programme on Seed Production in Pulses We have planned to conduct 2 training programme on seed production and certification
2.3	To give more training on "Pulse production technology" to the farmers.	We have planned to organize the training on Pulses seed production technologies
3. Mr. T. Mohankumar Lead Bank Manager, Theni		
3.1	KVK should facilitate Financial Linkages to the farmers and entrepreneurs	We have planned to invite the local branch managers for our events for explanation of Bank schemes for farmers We are planned to organize training programme on financial linkages available for farmers and entrepreneurs in agricultural sector
3.2	To make more credit linkages to the farmers	We are planning to invite the local branch managers to talk about schems and subsidies during training programmes.
3.3	KVK should invite local branch manager during the various training programme	We have planned to invite the local branch managers for our events for explanation of Bank schemes for farmers We are planned to conduct training cum awareness programmes on agricultural schemes and services available in banking institutions to farming community
3.4	KVK should conduct the entrepreneur success meet.	We are planning to conduct Entrepreneurs Meet in collaboration with Bankers
4. Mrs. P. Rejina, Women Entrepreneur, Aranmanaipudur		
4.1	KVK should facilitate loan opportunities to the entrepreneurs for improving business activities.	We are planned to organize camps for Entrepreneurs, self-help groups, farmer's interest groups for availing credits to initiation of agri-business activities in collaboration with banking institutions**.** We are planning conduct Entrepreneurs Meet and alsoto link the entrepreneurs with DIC, LDM, Theni
5. Mrs. K. Preethi Women Entrepreneur, Seepalakottai		
5.1	KVK should give more training on "Entrepreneurship development programme" to the farm women.	We are planning to conduct need based skill training programme to generate employment opportunities.
6. Nivethitha Devi – Case worker, DSW Office, Theni		
6.1	KVK should give more EDP training collaborate with DSW to the depressed women	We are planning to conduct training programme in collaboration with DSW, Theni
6.2	To share the list of training programme with DSW office. Theni.	We also planned to share the training programme schedule with District Social Welfare Office, Theni.
7. Mrs. Malaiyakkal Progressive farmer, Ethakovil		
7.1	To give more training on "Cow and Poultry rearing" to the farmers.	We are planned to conduct the more training Cow and Poultry rearing" to the farmers with

S.No.	Name of the SAC Member	Action Taken
		collaboration of FTC, Theni
8. Mr. C. Rajamanikkam Forester, Chinnamanur		
8.1	KVK should give more training on "Agro forestry" to the farmer.	We have planned to organize the training programme on Agroforestry
8.2	KVK should develop "Agro forestry unit" in the KVK campus for make awareness to the farmer.	We have planned to develop the agroforestry model at KVK campus for creating awareness to the farmers
9. Mrs. S. Subashini Women Entrepreneur, PC Patti		
9.1	KVK should help to create a financial linkages for women entrepreneurs	We have planned to conduct training programme on financial opportunities available for women entrepreneurs We are planning to invite DIC, KVIC, KVIB, DRP-PMFME for creating the financial linkages during training programmes
10. Mr. O. Chinnasamy Progressive farmer, Mayandipatti		
10.1	To give training on improved production technology in Jasmine, Banana, Tomato and Onion.	We have planned to conduct the on campus and off campus trainings on GAP in Jasmine, Banana, Tomato and Onion.
10.2	To give training on "Silk worm rearing" to the farmers.	We have planned to give two training on "Silk worm rearing" to the rural youth.
10.3	To create awareness about Mushroom cultivation technology among the women farmers.	We have planned to conduct two training on Mushroom cultivation technology among the women farmers
10.4	KVK should promote "Production of value added products from all crops" for minimize the wastage and price flotation.	We have Planning to conduct need based training from all the basic five food groups
11. Mr. A. Chellandi – Progressive farmer, Andipatty		
11.1	To give training on "Improved Brinjal Production Technology" for increasing Productivity	We have planned to conduct trainings on "Recent technologies in Brinjal cultivation" to the farmers.
11.2	To give more training on "Pest and disease management Practices" to the farmer.	We have planned to conduct five training programme on "Pest and disease management Practices" in major crops.
12. Mr .P. Sokkarselvam Progressive farmer, Kamatchipuram		
12.1	To give training on "Micro nutrient management practices in Banana" for Banana Growers.	We have planned to conduct four training programme on "Micro nutrient management practices in Banana" for Banana Growers. We are planned to promote IIHR Banana special large scale level through KVK.
12.2	To give training on "Banana Ripening Technology "to the Banana Growers.	We have planned to conduct trainings on post-harvest management in Banana and also Growers exposure visit to Banana industries.
12.3	KVK should promote Farm mechanization for labour shortage problem.	We are planning to provide training on Farm Mechanization and drudgery reducing technologiesprogrammes in collaboration with Agriculture Engineering Department, Theni
12.4	KVK should promote and demonstrate "Drone Technology" to minimize the labour shortage problem.	We have planned to conduct one skill training programme on Farm mechanization. We planned to conduct Three demonstrations on Drone usage.

S.No.	Name of the SAC Member	Action Taken
12.5	To give training on "Poly house cultivation of cucumber" to the farmer	We have planned to conduct trainings on cucurbitaceous vegetables cultivation in polyhouse and exposure visit to leading polyhouse units.
13. Mr .Kalimuthu, District Coordinator, MSSRF, Theni		
13.1	KVK should promote Minor Millets Production	We have planned to 2 FLD programme and 3 training programmes for promotion of minor millets
13.2	KVK should conduct orientation programme regarding farmers trainings for NGOs	We have planned to conduct orienetation training on KVK activities to NGO workers
14. Mr . P. Saravanan AAO, Agricultural Marketing, Chinnamanur		
14.1	KVK should promote value added products from various crops.	We are planning to conduct farmers need based trainings to minimize loss and promotion of value added products from locally available produces.
14.2	To give capacity building development trainings to the FPOs.	We have planned to conduct four capacities building training programme for FPO Board of Directors. We are planning to provide technical guidance andcapacity building development trainings to the BODs of FPOs.
15. Mr.G. Senthilkumar , Executive officer VaazhandhuKattuvom Project – Theni		
15.1	KVK should give training on "Business Plan making procedure and FSSAI Certification process" to the farm women's.	We are planning invite DRP and FSOs to tell aboutBusiness Plan making procedure and FSSAI Certification process during training programmes
16. Mr. S. Murugan MESAP Trust ,Periyakulam		
16.1	To give training on "Mango Pruning Technologies" to the Mango Growers	We have planned to conduct trainings on rejuvenation technologies in Mango orchard.
16.2	KVK should promoteArka Supreme Avacoda Variety from IIHR in Theni District.	We have planned to introduce avocado Arka supreme variety seedlings from IIHR and appropriate trainings Regarding cultivation technologies to the Avacado farmers**.**
16.3	To give training on "Tomato Post Harvesting Technology"	We have planned to conduct trainings on rejuvenation technologies in Mango orchard. We are planning to conduct 2 training on PHT & Value Addition in Tomatoes
16.4	To create awareness about seed treatment technology among the farming community.	We have planned to organize ten method demonstration programme for seed treatment technologies
16.5	KVK should distribute the Price forecast calendar for particular crops to the farmers	We have planned to prepared price-forecast calendar for agricultural and horticultural crops
17. Mr. M. Pandiyan, Periyakulam		
17.1	KVK should promotecoconut value addition and minor millet production technology	We have planned to conduct STRY Program on Millets cultivation and Value Addition We are planning to conduct 2 trainings on Post Harvest Technology and Value Addition in Coconut.
17.2	KVK should promote Ragi Malt Production Technology	We have proposed 1 FLD on Demonstration of Nutrient Dense RTU and RTS Healthy Foods
17.3	KVK should promote Ground water improvement activities.	We are planning to conduct 6 awareness programme on rainwater harvesting methods and farm pond

S.No.	Name of the SAC Member	Action Taken
		development
17.4	To create awareness about Medicinal value of coconut oil"	We are planning to conduct training on Post Harvest Technology and Value Addition in Coconut. Awareness will be created during the coconut basedprogrammes.
18. Dr. S. Senthil Kumar, Associate Professor & Head FTC, Theni		
18.1	KVK should include TANUVAS Technology in OFTs & FLDs programme viz., Masteguardspary, Herbal spray, Sheep & Goat APP, Ranikhet disease	We are included Tick guard, Mastiguardspary in FLDs programme
18.2	To conduct PRA meeting at Village level	We are planning to organize the 2 PRA meeting during this year
18.3	KVK should promote Quail rearing among the farmers level collaborate with FTC, Theni	We have included Namakkal Gold Quail rearing in FLD programme
18.4	KVK should develop IFS model in KVK, Campus.	We have planned to develop IFS model at KVK campus for learning of farmers
18.5	To facilitate preparation of Business plan for credit purpose.	We are planning to conduct training programme on business plan preparation for availing credits from financial institutions
18.6	KVK should educate ethano veterinary practices to cattle rearing farmer	We are planning to conduct training programmeonethano veterinary practices to cattle rearing farmer.
19. Dr.C. Muhaiyah Professor & Head, HC&RI ,Periyakulam ,		
19.1	KVK should share the newly emerging pest &disease with HC&RI ,Periyakulam	We have planned to search newly emerging pest & disease and share with HC & RI, Periyakulam.
19.2	To popularize drought resistance fruit crops like Manila Tamarind, Jamun& Wood apple (Periyakulam Varieties) in Theni district	We have planned to popularize in Manila Tamarind, Jamun and Wood apple in Theni district through trainings and demonstration's.
19.3	To include the following problems management practices in upcoming FLD programme Cashew - Dieback disease Banana - Sikotoka leaf spot disease Cucumber - Pest & disease management under poly house condition	We are included Cashew - Dieback disease management in OFT programme. We are included Banana - Sikotoka leaf spot disease in FLD programme. We are planned to give two training programme on Cucumber - Pest & disease management under poly house condition.
20. Mr. A. Mayilraja Assistant Inspector of Sericulture		
20.1	KVK should develop mulberry cultivation demo unit in the campus.	We are planned to develop the mulberry cultivation demo unit in the campus.
20.2	KVK should involve the training conducted by Department of Sericulture.	We are planned to conduct one training programme with collaboration of Department of Sericulture
21. Dr.V. NadanaSabapathyChiarman, CREED KVK, Ariyalur		
21.1	KVK should promote organic agriculture at farmer level	We have included organic inputs in OFTs and FLDs programme
21.2	To include small millets in upcoming OFT & FLD programme	We have planned to conduct one OFT and three FLD programme on Millets.
21.3	To promote herbal garden for immunity boosting food during COVID	We have planned to conduct one FLD on Herbal Garden

S.No.	Name of the SAC Member	Action Taken
22. Dr.A. Baskaran Principle Scientist, ATARI, Hyderabad		
22.1	KVK should develop a sales centre in Rural & Urban area for selling of planting material, seeds, Saplings, crop booster & coconut tonic.	We have planned to organize one vocational training programme on organic farming. We have planned to organize one skill training programme on Organic input preparation technologies. We are planning to conduct training on value added products from organic fruits and vegetables We have proposed 1 FLD RTU Multigrain Mixes
22.2	KVK should improve RF for upcoming year	We are planning to develop more value added product to increase the RF.
22.3	To develop & maintain farmers database with 13 parameters	We have plan to develop farmers database with 13 parameters
22.4	KVK should popularize the Central & State Govt Schemes among the farmers.	We have to plan to conduct training cum awareness programmes on central and state government schemes among the farming community
22.5	Try to prepare & distribute the Bankable projects to the farmers and entrepreneurs	We have planned to purpose bankable projects to the farmers and entrepreneurs
22.6	To conduct more training on "Recent Agricultural Technology and Entrepreneurship development activities to the rural youths.	We have planned to conduct 10 recent agricultural production technologies related training programme We are planning to develop more value added product to increase the RF.
22.7	To promote on Millet cultivation in Theni District	We have planned to conduct FLD, training programme and awareness programme for Millets promotion We are planning to promote Millet cultivation and value addition technologies through KVK Mandated and Extension Activities
22.8	KVK should share the farmer's success story with AIR, Madurai for widespread.	We have planned to share the Success story with AIR Madurai. We planning to share the farmers' and Entrepreneurs success story with AIR, Madurai for wider dissemination
23. Dr. P.P. Murugan , DEE,TNAU		
23.1	KVK should include the all types farmers like small , marginal & big farmer in the training programme	We have planned to include the all the farmers in our programme.
23.2	To record the farmers feedback of new technology.	We have planned to record the feed of the technologies from all OFT and FLD programmes We are planning to record farmers feedback of new technologies for further implementation
23.3	To develop and promote Ready to Eat (RTE) products from millets.	We have proposed 1 FLD on RTE & RTU Products from Millets We are planning to conduct trainings on value added products from Millets
23.4	KVK should promote seed production activities in KVK & farmer field level.	We have planned to conduct one Skill training programme on Seed Production technologies in Pulses and millets.
23.5	To give more training on Balanced food system in Animal husbandry (like Green fodder, Concentrate feed & Mineral mixture).	We have to plan to conduct training cum awareness programmes on preparation of compound feed with local available ingredients. We have included Multi fodder production in FLD.

S.No.	Name of the SAC Member	Action Taken
23.6	To Popularize PKM 1 Manila Tamarind at farmer field level.	We have planned to popularize the importance of PKM 1 Manilla tamarind crop through different type activities viz, trainings, demonstrations, social medias, TV Talk and etc.,
23.7	To include off season Jasmine Production technology in upcoming OFT (or) FLD Programme	We have included the off season Jasmine Production technology in FLD programme.
23.8	To give training on "Value addition from all crops" to the farmer	We are planning to conduct training on Value addition from all crops to the farmer in all blocks of the District
23.9	To create market linkage to the banana farmer.	We have plan organize buyer-seller meet among banana growers We have planned to conduct a many interaction meetings between banana farmers and traders at KVK campus itself for the purpose of market linkage.
23.10	To promote solar energy based machineries among the farmers level.	We have planned to promote solar based technologies to the farmers
23.11	To develop weather and price forecast system through KVK.	We have planned to forecast weather and face system through ICT tools.
23.12	To give more training on "Nematode management in flower crops"	We are planned to conduct one training programme on "Nematode management in flower crops"
23.13	To popularize TNAU Coconut Tonic, Booster's and Bio mineralizer among the farming community	We are included TNAU Groundnut rich, Sugarcane boosters, TNAU vigour plus and TNAU Rhizome in OFTs and FLDs programme.
23.14	KVK should develop Trichoderma production unit in KVK, Campus	We are planned to develop mass production unit in KVK
23.15	To develop One stop sales shop at KVK campus	We have planned to establish the one stop sale centre at KVK

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	P.Maheswaran SMS (Agronomy)	Good agricultural practices for biotic stress management and productivity improvement in millets as nutricereals	CRIDA, Hyderabad	5 days	June 2023
2	P.Maheswaran SMS (Agronomy)	Promotion of Agroforestry as climate Risk Management	MANAGE, Hyderabad	2 days	August 2023
3.	Mrs. M. Ramyasivaselvi SMS (Home Science)	Millets by Products	IIMR, Hyderabad	5 days	June 2023
4.	Mrs. M. Ramyasivaselvi SMS (Home	PHM& Value Addition Agricultural produce	ICAR – CIPHET Ludhiana	5 days	Sep 23

	Science)				
5.	Dr. V. Karthikpandi SMS (Plant protection)	Plant protection Management	NIPHM, Telangana	5 days	Aug 2023
6.	Dr. V. Karthikpandi SMS (Plant protection)	Mushroom Cultivation	ICAR – Directorate of Mushroom Research center	5 days	Oct 2023
7	Mr. M. Arunraj SMS (Soil Science)	Integrated Soil Nutrient and Rhizosphere Management	NIPHM, Hyderabad	5 days	June 2023
8	Mr. M. Arunraj SMS (Soil Science)	Integrated Soil Nutrient and Rhizosphere Management	NIPHM, Hyderabad	10 days	March 2024
9	Dr. R. Siva sakthi PA (Animal Science)	EthnoVefering Practices in Vetering field	College of Veterinary and Animal Sciences, Mannuthy	5 days	Jan 2024
10	Dr. Rajaraman SMS (Horticulture)	PHM in protected cultivation	NIPHM, Hyderabad	5 days	Aug 2023
11	Mr. C. Sabarinathan SMS (Agricultural Extension)	Mobile Journalism (MOJO) for Effective Transfer of Technology	PJTSAU, Rajendranagar, Hyderabad, Telangana	5 days	June 2023

One HRD training per SMS selected from ICAR/ SAU training calendars; At any point of time only one staff to be deputed from KVK to participate in training of more than 5 days duration. Nominations to be approved by DEE for SAU KVKs/ Director of ICAR KVKs / ATARI forNGO/ DU KVKs recommended by host organization for deputation in trainings/ workshops/ seminars/ conferences where travel cost and course fee/ registration charge is involved. Expenditure for nominations not duly approvedas above will have to be met from sources other than KVK budget or by sponsoring agency.

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	Millets production	KVK Madurai	Experience sharing workshop on promotion of FPOs through KVK activities	Erode
2	Value chain management in Grapes	KVK Dindigul	Groundnut and fodder seed production	Namakkal
3	High tech Cultivation of Banana based Cropping System	Trichirapalli, Kanyakumari	Organic input preparation	Erode
4	Off season Flower Production in Jasmine	Krishnagiri Dharmapuri	Experience sharing workshop on promotion of FPOs through KVK activities	Erode
5.	-	-	Fodder Seed production through PPP mode	Namakkal
6.	-	-	Seed Hub activities	Madurai

6. Operational areas proposed during 2023-24

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 interventio n*
Theni/Theni/Theni	Paddy	Low yield due to non adoption of improved agricultural practices with improved variety	In an area of 1450 ha among 1800 farmers	Kottur	FLD, Training, Extension Activities
Theni/Theni/Theni	Fodder crops	Non availability of improved fodder crop and poor crop management in fodder	Among 1200 farmers	Venkatachalapuram	Training, Extension activities
Theni/Theni/Theni	Maize	Low yield (56.4 q/ha) due to non adoption of improved crop management practices	In an area of 2800 ha among 4000 farmers	Srirengapuram	Training, Extension activities
Theni/Theni/Theni	Maize	Affected Fall armyworm incidence is high (40%) So Yield loss (4.90 q/ha).Due to lack of knowledge inIPM practices	In an area of 550 ha among 200 farmers	Sadayalpatti	FLD, Training Extension activities
Theni/Theni/ Theni	Terrace Garden	Minimum knowledge in terrace garden techniques	In an area of 150 ha among 200 farmers	Venkatachalapuram	Training, Extension Activities
Theni/Theni/ Theni	Multi crop 10 cent fodder production	Less milk production due to lack or awareness about multi fodder usage	-	Venkatachalapuram	FLD, Training, Extension Activities
Theni/Theni/Theni	Paddy	Lack of knowledge on value added products from traditional rice	-	Veerapandi	Training, Method Demonstration
Theni/Theni/Theni	Sugarcane	Low yield in ratoon crop (81 t/ha) due to improper crop management and lack of availability of new variety	In an area of 650 ha among 750 farmers	Sokkathevanpatti	Training, Extension Activities
Theni/Periyakulam/ Periyakulam	Paddy	Continues cultivation of same variety and non introduction of high yielding new varieties leads to higher pest and low yield (48.27 q/ha). Lack of availability of improved high yielding varieties	In area of 2100 ha among 3400 farmers	Melmangalam	OFT, Extension activities

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*
Theni/ Periyakulam/ Periyakulam	Cotton	Low yield (12.5 q/ha) due to poor crop management practices and incidence of pest and diseases	250 ha among 850 farmers	Vadaveeranyakanpatti	FLD, Training, Method demonstration
Theni/ Periyakulam/ Periyakulam	Betel vine	Lack of knowledge on betel vine by-products	Less awareness on betel vine by products among farmers	Vadugapatti	Training, Extension Activities
Theni/ Periyakulam/ Periyakulam	Mango	Affected leaf Webber and hoppers incidence is high (45%). So low yield (49q/ha)Due to lack of knowledge inIPM practices.	In an area of 5000 ha among 3000 farmers	Periyakulam	FLD, Training, Extension Activities
Theni/ Periyakulam/ Periyakulam	Banana	Lack of knowledge on RTU food and Low cost during peak season	-	Kullapuram and Alaganayakkanpatti	FLD, Training, and Extension Activities
Theni/Periyakulam/ Periyakulam	Betelvine	Lack of knowledge on value added products Betelvine	-	Jayamangalam	Training and Extension Activities
Theni/Periyakulam/ Periyakulam	Mango	Lack of knowledge on value addition in Mango	-	Vadagarai	Training, and Extension Activities
Theni/Andipatti/ Andipatti	Black gram	Farmers are getting low yield (6.2 q/ha) due improper nutrient management practices and non-application of growth regulators.	In an area of 150 ha among 200 farmers	Okkaraipatti	OFT, Training, Extension Activities
Theni/Andipatti/ Andipatti	Tenai	Lack of availability of improved tenai variety	In an area of 30 ha among 120 farmers	S.Renganathapuram	FLD, Training, Extension Activities
Theni/Andipatti/ Andipatti	Ground nut	Low yield (11 q/ha) due to cultivation of local variety and lack of knowledge about improved varieties	450 ha among 1200 farmers	Sithayagoundanpatti	OFT, Training, Method Demonstration Field day
Theni/Andipatti/ Andipatti	Ground nut	Low yield (12.6 q/ha) due to improper nutrient management lack of awareness about foliar nutrition	In an area of 350 ha among 420 farmers	Palacombai	FLD, Training, Extension activities
Theni/Andipatti/ Andipatti	Sorghum	Low yield (15.62 q/ ha) due to drought incidence, Lack of awareness about	In an area of 150 ha among 200 farmers	Mayandipatti	FLD, Training, Extension

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 interventio n*
		drought mitigation techniques			Activities
Theni/Andipatty /Andipatty	Ground nut	Low productivity due to imbalanced nutrient application and non-application of growth promotors.	In an area of 150 ha among 200 farmers	Balacombai	OFT, Training, Extension Activities
Theni/Andipatty/ Andipatty	Brinjal	Non availability of improved variety and low yield, High incidence of pest and disease.	In an area of 450 ha among 370 farmers	K.Kamatchipura m	OFT, Training, Extension Activities
Theni/Andipatty/ Andipatty	Jasmin e	Lack of knowledge about off-season jasmine production, low yield and more pest and disease.	In area of 150 ha among 300 farmers	Kathirnaraisngap uram	FLD,Traini ng, Extension Activities
Theni/Aundipatti/ Aundipatti	Millets	Lack of awareness on millets consumption and value added products	-	Mayandipatti	Training, Extension Activities
Theni/Aundipatti/ Aundipatti	Pulses	Lack of knowledge on Safe storage techniques	OFT	K.Kamatchipura m	OFT, Training and Extension Activities
Theni/Aundipatti/ Aundipatti	Moring a	Value Added Products from Moringa	-	G.Usilampatti	Training, Extension Activities
Theni/Aundipatti/ Aundipatti	Moring a	Affected bud worm, hairy caterpillar and leaf caterpillar incidence is high (35 %). So yield loss (490 q/ha)Due to lack of knowledge inIPM practices.	In an area of 250 ha among 450 farmers	Annupampatti	FLD, Training.
Theni/Aundipatti/ Aundipatti	Vegeta bles	Lack of awareness on Post harvest management and value addition in fruits and vegetables	-	Silon Colony	Training, Extension Activities
Theni/Aundipatti/ Aundipatti	Maize	Lack of knowledge on immunity boosting foods	-	Adaikampatti	FLD, Training, Field Day,
Theni/Aundipatti/ Aundipatti	Brinjal	Affected fruit borer pest incidence is high (35 %). So yield loss (22.05 q/ha)Due to lack of knowledge inIPM practices.	In an area of 800 ha among 250 farmers	K. Kamatchipuram	OFT, Training, Extension activities
Theni/Aundipatti/ Aundipatti	Jasmin e	Affected bud worm incidence is high (35 %). So yield loss (14.7 q/ha) Due to lack of knowledge inIPM practices.	In an area of 600 ha among 450 farmers	Kathirnarasingap uram	OFT, Extension activities

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 interventio n*
Theni/Aundipatti/ Aundipatti	Jasmin e	Lack of knowledge about off-season jasmine production, low yield and more pest and disease.	In area of 150 ha among 300 farmers	Kathirnaraisngap uram	FLD,Traini ng, Extension Activities
Theni/Andipatty/ Andipatty	Brinjal	Non availability of improved variety and low yield, High incidence of pest and disease.	In an area of 450 ha among 370 farmers	K.Kamatchipura m	OFT, Training, Extension Activities
Theni/Andipatti/ Andipatti	Cattles	Personal contact with every farmer is difficult. Conventional Technology transfer mechanism is not effective in catering the need of individual farmer on time. Inconsistency in availing information.	-	Mayiladumparai	FLD, Training, Extension Activities
Theni/Cumbum /Cumbum	Gingell y	Farmers getting low yield (3.8q/ha) due to non adoption of improved agricultural practices	In an area of 250 ha among 600 farmers	Keelagudalur	CFLD, Training, Extension activities
Theni/Uthamapal ayam/ Cumbum	Ridge gourd	Non availability of improved variety and low yield, High incidence of pest and disease	In an area of 350 ha among 420 farmers	Kamayagoundan Patti	OFT, Training, Extension activities
Theni/Uthamapal ayam/Cumbum	Coconu t	Lack of knowledge on value addition in coconut	-	Cumbum	Training and Extension Activities
Theni/Uthamapal ayam/ Cumbum	Grape	Uneven uniform colour improvement in Grape fruits, low market value and low shelf life	In an area of 700 ha among 900 farmers	KG Patti	FLD, Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Grapes	Low market price and low shelf life	-	Royappanpatti	OFT and Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Milk	Lack of knowledge on value added products from Milk	-	Sankarapuram	Training and Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Tomato	Affected fruit borer incidence is high (45 %). So Yield loss (49 q/ha) Due to lack of knowledge inIPM practices.	In an area 900 ha among 500 farmers	Pulikuthi	OFT, Training, Extension activities
Theni/ Uthamapalayam/ Chinnamanur	Corian der	Non availability of improved variety and low yield, Poor quality of leaves/Herbage and Low shelf life	In an area of 150 ha among 200 farmers	Seepalakottai	FLD,Traini ng, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Lab lab	Non availability of improved variety and low yield, High incidence of pest and disease.	In an area of 180 ha among 200 farmers	Erasainaickanur	OFT,Traini ng, Extension Activities
Theni/	Tomato	Farmers are getting low	In an area of	Apipatti	FLD,

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*
Uthamapalayam/ Uthamapalayam		yield due to high flower drop. Lack awareness about crop boosters.	250 ha among 400 farmers		Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Moringa	Lack of awareness on value added products from Moringa	-	Vellaiyammalpuram	FLD, Training, Extension Activities
Theni/Uthamapalayam/Chinnamanur	Banana	Low market price during peak harvest period	-	Erasainaickanur	Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Vegetables	Lack of knowledge on value added Products from vegetables	-	Iyyampatti	Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Banana	Lack of knowledge on low-cost ripening chamber	-	Seepalakotttai	Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Black gram	Low yield (5.7q/ha) due to non adoption of improved agricultural practices	In an area of 350 ha among 800 farmers	Pannaipuram	CFLD, Training, Extension activities
Theni/ Uthamapalayam/ Chinnamanur	Grapes	Affected powdery mildew diseases incidence is high (45%). So yield loss (49 q/ha) Due to lack of knowledge inIDM practices.	In area of 1000 ha among 600 farmers	Chinnaovalapuram	OFT, Training, Extension activities
Theni/ Uthamapalayam/ Chinnamanur	Sheep and Goat	Personal contact with every farmer is difficult. Conventional Technology transfer mechanism is not effective in catering the need of individual farmer on time. Inconsistency in availing information.	-	Sukkangalpatti	FLD,Training, Extension Activities
Theni/ Aundipatti/ Kadamalaikundu	Coconut	Yield loss (20 %) due to button shedding problem; improper nutrient management practices.	In an area of 350 ha among 500farmers	Thangamalpuram	Training, Extension Activities
Theni/ Aundipatti/ Kadamalaikundu	Coconut	Due to lack of awareness of management practices Affected die back diseases incidence is high (35 %). So yield loss (600 kg/acre)	In an area of 600 ha among 200 farmers	Kadamalaikundu	FLD, Training
Theni/ Aundipatti/ Kadamalaikundu	Cashew	Affected die back diseases incidence is high (35 %). So yield loss (14.7 q/ha) Due to lack of knowledge inIDM practices.	In an area of 600 ha among 200 farmers	Rajendranagar	FLD, Training Extension activities
	Cumbu	Poor yield (11.5 q/ha) due to poor crop varieties cultivation and non availability of improved Cumbu varieties	In an area of 680 ha among 1150 farmers	Kandamanur	OFT, Training, Method demonstration and Field days
Theni/	Coconu	Fungal infections druing		Kadamalaikundu	Extension

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*
Aundipatti/ Kadamalaikundu	t	drying over coconut	-		Activities
Theni/ Aundipatti/ Kadamalaikundu	Milk	Value Addition in Milk	-	Mayiladumparai	Extension Activities
Theni/ Aundipatti/ Kadamalaikundu	Coconut	Personal contact with every farmer is difficult. Conventional Technology transfer mechanism is not effective in catering the need of individual farmer on time and also assistance of agricultural experts are not available at all time it will lead cost of cultivation. Popularization of TNAU Coconut expert system mobile application	In an area of 300 ha among 250 farmers	Kadaimalaikundu	FLD, Training, Extension Activities
Theni/ Aundipatti/ Kadamalaikundu	Medicinal plants	Lack of knowledge on handling bee boxes and value added products from Medicinal Plants	-	Karattupatti	Training and Extension Activities
Theni/ Bodinayakanur/ Bodinayakanur	Tomato	Low yield, Poor quality of fruits, Incidence of Pest and Diseases (Leaf Curl, Blossom End Rot, Bacterial wilt, Early blight).	In an area of 250 ha among 350 farmers	Palarpatti	FLD, Training, Extension Activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Banana	Less knowledge on value addition in Banana	-	Palarpatti	FLD, Training, Extension Activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Organic farming	Lack of knowledge about organic farming and lack of knowledge about organic input	In an area of 250 ha among 350 farmers	Palarpatti	Training, Extension Activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Medicinal plants	Lack of knowledge on value added products from Medicinal Plants	-	Munthal	Training and Extension Activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Groundnut	Low yield (13.8 q/ha) in Groundnut due to non adoiption of improved variety and GAP	In an area on 850 ha among 1500 farmers	Silamalai	CFLD, Training, Extension activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Green gram	Low yield (4.5 q/ha) due to non adoption of improved Agricultural practices	In an area of 520 ha among 1200 farmers	Palarpatti	CFLD, Training, Extension Activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Tomato	Low income due to imbalanced nutrient application. Low productivity and profitability in view of increased production cost	In an area of 180 ha among 250 farmers	Palarpatti	OFT, Training, Extension activities

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*
		due to high usage of chemical fertilizers			
Theni/ Bodinaykkanur/ Bodinaykkanur	Banana	Affected sigatoka leaf spot diseases (30 %). So low yield (367.5 q/ha).Due to lack of knowledge inIDM practices.	In an area of 550 ha among 400 farmers	Palarpatty	FLD, Training, Extension activities
Theni/ Bodinaykkanur/ Bodinaykkanur	Tick shield	Less production due to ticks	-	Boothipuram	FLD, Training, Extension activities
Theni/Bodinayakanur/Andipatti/Andipatti	Oilseeds	Low rate of adoption of Pulses technologies among farmers. CFLD is being conducted to improve the Oilseed Production hence, it is important to identify the gaps in adoption of technologies	In an area of 250 ha among 200 farmers	Perumalgoundanpatti and Kathirnarasingapuram	Extension studies, Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Banana	Lack of awareness on latest cultivation technologies and Yield loss (15 %) due to improper nutrient management and Micronutrient deficiency	In an area of 250 ha among 100 farmers	Erasainaickanur	Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Banana	Non availability of improved variety and low yield, Poor quality of fruits, Low shelf life	In an area of 150 ha among 200 farmers	Seepalakottai	Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Namakal gold quail	Lack of awareness about quail production	-	Seelayampatti	FLD, Training, Extension Activities
Theni/ Uthamapalayam/ Chinnamanur	Masti Guard	Loss of milk production due to mastitis	-	Sukkangalpatti	FLD, Training, Extension Activities
Theni/Uthamapalayam/Chinnamanur/ Chinnmanur	Paddy	Low yield due to improper crop management practices among Paddy Cultivating farmers	In an area of 1500 ha among 850 farmers	Gokilapuram and Kulayanur	Extension studies, Training, Extension Activities

***(OFT/ FLD/ Training/ Field day/ Method demonstrations/ Awareness camp)**

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
Theni/Bodinayakkanur/ Bodinayakkanur	Palarpatti	Bhendi	Lack of knowledge about INM in Bhendi	OFT, Training, Extension activities
Theni/Bodinayakkanur/ Bodinayakkanur	Palarpatti	Banana	Lack of knowledge about Banana Diseases management	OFT, Training, Extension activities
Theni/Bodinayakkanur/ Bodinayakkanur	Palarpatti	Banana	Low cost during peak harvest period Less knowledge on value added products	FLD, Training, Extension activities
Theni/Andipatty/ Andipatty	Pichampatti	Sorghum	Low yield (15.62 q/ ha) due to lack of awareness about Integrated Crop management technologies	FLD, Training, Extension activities
Theni/ Bodinayakkanur/ Bodinayakkanur	Palarpatti	Onion	Non availability of improved variety and low yield (14-17 t/ha). Short shelf life. Yield reduction due to improper Pest, Disease and Nutrient management.	Training, Extension Activities
Theni/Andipatty/Andipatty	Mullayampatti	Vegetables	Lack of Knowledge on nutri rich crops and biofortified varieties	Training, Extension Activities

***(OFT/ FLD/ Training/ Field day/ Method demonstrations/ Awareness camp)**

7. Summary(targets) of mandated activities planned for the year 2023-24

Mandated Activities	Activities	Target
1. On- farm trials	a. No of OFTs	16
	b. No of Technologies (Total new technologies except FP)	32
	c. No. of locations (No. of Villages)	16
	d. No. of Beneficiaries (No. of Farmers fields)	80
	e. Area (Total area in ha)	9
2. Frontline Demonstrations	a. No. of FLDs	27
	b. No. of Locations (No of villages)	27
	c. No. of Beneficiaries (No of Farmers fields)	270
	d. Area (Total Area planned in ha)	76.2
3.Trainings for Farmers and Farm Women	a. No. of programmes	117
	b. No. of participants	2353
4.Trainings for Rural Youth	a. No. of programmes	28
	b. No. of participants	660
5. Trainings of Extension Personnel	a. No. of programmes	16
	b. No. of participants	375
6.Extension Activities	No. of activities (Total number of activities listed in Table 13)	1028
	No. of participants	30265
7. Production of seed (in quintals) (Crop-wise)	Groundnut (CO 6, VRI 9,10)	10 q
	Black gram VBN 8 and VBN 10	4 q
	Sorghum CO 32	4 q
	Green gram CO 8	4 q
8. Production of planting materials (in Nos.) (Crop-wise)	Mango, Sapota & Guava seedlings	10000
	Tomato, Chilli, & Brinjal	200000
	Banana suckers	10000
9. Production of live-stock strains and finger lings (Category wise Nos.)		2000
10. Production of bio inputs (quantity in kg) (Item-wise)		520
	Vermicompost	6000
11. Production of other inputs (specify unit) (Item-wise)	IIHR Banana Special	1000
12. Kisan mobile advisories	No. of messages	62
	No. of technologies	62
	No. of farmers	13600
Other mobile advisories	No. of messages	84
	No. of technologies	84
	No. of farmers	2150
13. Soil testing	No. of soil sample testing using Mobile Soil Testing Kit	200
	No. of soil sample testing in conventional laboratory	250
Water sample Testing (samples in No.)		300
Soil Health Cards	No. of Cards using Mobile Soil Testing Kit data	200
	No. of Cards using Laboratory data	250

8. Technology Assessments proposed during 2023-24

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	Paddy	Assessment of Paddy variety for Kodai season in Theni District	TO 1- CO 55 - short duration superfine variety with 115 days. The average yield of the culture is 60.50 q/ha. TO 2- Telangana Sona (RNR 15048)- Short duration (125 days), Yield – 60.0 q/ha FP- NLR 34449 Durarion – 120 days Yield – 48.27 q/ha	TNAU, 2022 PJTSAU, 2021	New	5	12000	SMS (Agronomy) SMS (Plant Protection)	5	-
2	Groundnut	Assessment of High yielding Groundnut variety for Rain fed Region of Theni District	TO 1- VRI 10 - duration of 95 days. Average yield is 25 q/ha TO 2 - KADIRI LEPAKSHI - Duration – 112 days , Average Yield 35 q/ ha. FP - JL 24 120 days duration Yield – 14.27 q/ha	TNAU, 2022 ANGARU, 2020	2nd year	5	36000	SMS (Agronomy), SMS (Soil Science)	-	1

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
3	Cumbu	Assessment of Bio fortified Cumbu hybrid for Theni District	TO 1- COH 10 Duration: 85-90 days, Yield : 32.26 q/ha TO 2- AHB 1200 – Duration : 85 days, Yield 32 q/ha, Dry q/ha FP - ICMV 221 Duration- 110 days Yield – 11.5 q/ha	TNAU, 2023 ICRISAT, 2018	New	5	11000	SMS (Agronomy), SMS (Home Science)	1	1
4	Redgram	Assessment of suitable intercrop for Redgram	TO 1 – Redgram + Samai (ATL 1) TO 2- Redgram + Green gram (CO 8) FP: Sole crop	TNAU 2022 TNAU, 2020	New	5	9750	SMS (Agronomy)	-	5
5	Lab lab	Assessment of suitable high yielding varieties of Lab lab in Theni District.	TO 1- CO 16A selection made from the progenies derived from the cross combination of Lp (b) 03 x Lp (b) 36. June – July and October – November. Yield:16.5 t/ha.. TO 2 - Arka jay Developed through back cross and pedigree selection	TNAU 2023 IIHR 2016	New	5	6000	SMS (Horticulture) and SMS (Plant Protection)	-	1

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
			involving the Parents Hebbal Avare x IIHR 93. FP: Goldy -Ankur seeds							
6	Ridge Gourd	Assessment of suitable high yielding varieties of Ridge Gourd in Theni District.	TO 1: MDU-1 A selection made from the progenies derived from the cross combination of Virudhunagar local x Periyakottai local. Yield:18.75 tons/ha. TO 2: Arka prasan Open pollinated variety developed by inbred selection from the segregating germplasm, IIHR-53. FP :Komal hybrid	TNAU 2023 IIHR 2017	New	5	5000	SMS (Horticulture) and SMS (Plant Protection)	1	-
7	Brinjal	Assessment of suitable high yielding varieties of Brinjal in Theni District.	TO 1: MDU-2 It is a derivative of ACM SM 9 x Annamalai 1 brinjal. The crop duration is 140 days TO 2: Arka Neelachal Shyama F1 hybrid of the cross MS4 (A line) X IHR 3315(R line).	TNAU 2022 IIHR 2017	New	5	5000	SMS (Horticulture) and SMS (Soil Science)	-	-

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
			FP :MAHY 343 F1 hybrid							
8	Black gram	Assessment of performance of TNAU Vigour plus in pulses under rainfed condition	TO 1: TNAU Vigour plus TNAU Vigourplus is a pre-sowing seed coating nano-formulation, contains biopolymer nano matrix infused with plant growth promoting hormones. TO 2: Bio-Pulse Bio-Pulse can be used for cereals, millets, pulses, vegetables, plantation crops, etc. FP:Non application of growth promotors	TNAU SWC, 2022 NBAIM 2020	New	5	8000	SMS (Soil Science) and SMS (Agronomy)	-	2
9	Tomato	Assessment of performance of Bio NPK formulation in Tomato	TO 1: Bio NPK formulation Bio NPK Liquid Biofertilizer is a unique kind of bioformulation comprising nitrogen (N2) fixing (Azotobacter chroococum),	NBAIM 2020	New	5	8000	SMS (Soil Science) and (SMS Horticulture)	1	1

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
			TO 2: Arka Microbial Consortium Arka microbial consortium is a carrier basedproduct which contains n fixing. FP :High usage of chemical fertilizer	IIHR 2020						
10	Groundnut	Assessment of performance of Nut Boost in Groundnut under rainfed condition	TO 1: Nut Boost A formulation of consortium of PGPRs (P, K, and Zn solubilizer) TO 2: Foliar nutrition of TNAU Groundnut Rich Foliar Nutrition of Groundnut Rich - 2 sprays of TNAU groundnut rich @ 5.0 kg/ha (for each spray) at 35 DAS (50 per cent flowering) and 45 FP:Application of DAP and Complex fertilizer without any crop boosters	DGR 2020 TNAU CPG 2020	New	5	10000	SMS (Soil Science) and (SMS Agronomy)	-	1
11	Jasmine	Assessment of integrated bud worm	TO - 1: Spray NSKE 5% or Thiacloprid 240 SC @ 1 ml /lit	TNAU 2020	-	5	8,600	SMS (Plant Protection)	-	1

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
		management in Jasmine	Spinosad 45SC 0.5ml/lit TO - 2: Apply carbofuran at 40g/plant basally, Proper Pruning and hygienic maintenance of bushes., Spray NSKE 5% after proper pruning (Jan), Spray *Bacillus thuringinensis* 2 g/ltr 7 DAFS, Helilure Pheromone traps 5 No./acre and Light trap 1 No/acre. Spraying of Spinosad 0.3 ml and Thaicloprid 1 ml per ltr of water with 7 days inetrval) FP: Thiocloprid 1 ml/l	ICAR N.G Ranga Agricultural University, KVK Nellore 2018				&SMS (Horticulture)		
12	Tomato	Assessment of IPM modules against Tomato pin worm	TO - 1: Collect and destroy the pinworm affected plants and fruits Keep pheromone traps @ 5 nos./ac to attract and kill the adult moths *Trichogramma chilonis* @ 20,000/ac/release, Coinciding with	TNAU 2020	-	5	17,500	SMS (Plant Protection) & SMS (Horticulture)	-	1

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
			flowering time. Spray Chlorantraniliprole 18.5% SC @ 60 ml or Flubendiamide 20% WG @ 60 ml or Indoxacarb 14.5% SC @ 100ml or Neem formulation (Azadirachtin 1% or 5%) @ 400 – 600 ml/ac. TO -2 : Seed treatment with imidacloprid 48 % FS @ 7g/kg of seeds, seedling dip with imidacloprid 17.8 SC @ 0.5 ml/l,Collectionand destruction of infested leaves, Installation of sticky traps at 30/ac, installation of sex pheromone traps 20/ac Spraying of chlorantraniliprole 18.5 SC @ 0.3 ml/l, spinoteram12 SC @ 1.25 ml/l followed by flubendiamide 480 SC @ 0.3 ml/l	UAHS, Shivamogga 2022						

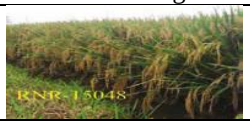
S. No.	Crop/ enterprise	Title of intervention	Technological options TO-1 TO-2 FP	Source of Technology TO-1 TO-2	Status *	No. of trials (replications)	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village(s)	No. of trials targeted under SC-SP
			FP: Quinalphos 1ml/l							
13	Grapes	Assessment of integrated management of powdery mildew in grapes	TO - 1: Spray wettable sulphur@ 0.3% or dust sulphur @ 6 -12 kg/ha in the morning or azoxystrobin @ 150 a.i./ha (600 ml/ha) at 30 days after pruning five times at 10 days interval TO - 2: Azoxystrobin+ Difenconazole 0.5 ml/l or Mycloblutanil 1.0g/l or Puprimet 25 EC 1 ml/l. Regular application of *Ampelomyces quisqualis* should be done @5-6g/L at regular intervals for control of powdery mildew. FP: Sulphur 2g/l	TNAU 2020 ICAR-NRCG Pune 2018	-	5	7,500	SMS (Plant Protection) & SMS (Horticulture)	-	1
14	Brinjal	Assessment of IPM practices for Brinjal fruit and shoot borer	TO - 1: Install pheromone trap@12/ha Remove the affected terminal shootshowing Bore holes. Remove the affected fruits and destroy. Spray Neem Seed	TNAU, 2022	-	5	7,500	SMS (Plant Protection) & SMS (Horticulture)	-	1

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
			Kernel Extract 5 % Spray of any one of the insecticides based on Economic threshold Emamectin benzoate 5% SG 4g/10 lit, Dimethoate 30% EC 7ml/10 lit, Flubendamide 20 WDG 7.5g/10lit and TO - 2: Thiodicarb 75% WP 2g/lit Pheromone traps @ 1 for 400 sq.m.Weekly release of 50,000 to 60,000 *Trichogramma chilonis* Two sprays of Bacillus thuringensis @1ml/l at 10days interval at peak flowering stage FP: Quinalphos 1ml/l	ICAR-IIHR 2022						
15	Grapes	Assessment of different processing and drying technologies for making dry grapes	TO-1: Abrasive Pre-treatment- Solar dryer or hot air dryer (at 50°C) TO-2: Ethyl oleate (1.5%), Potassium carbonate (2.5%), A spray of 300 ppm ascorbic acid on third	ICAR-CIAE, Bhopal and 2019 ICAR-NRCG, Pune and 2018	New	5	10000/-	SMS (Home Science)	-	-

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
			day of drying +Grape drying shed							
16	Pulses	Assessment of different storage techniques for safe storage of Pulses	TO-1 Black pepper seed powder as grain protectant @ 3 g/kg of grain for safe storage of Pulses TO-2 SWEET FLAG 6EC @ 10ml/kg of pulse seeds for the Management of Pulse Beetle in Seeds **FP-** Coating with clay, Gunny bags	Assam Agricultural University, Jorhat; 2021 TNAU, Coimbatore; 2019	New	5	Rs.7500/-	SMS (Home Science)	-	1

*** New OFT/2nd year/3rd year**

8.2. Details of OFTs 2023-24

OFT No.	1
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Cereals
Crop/ enterprise	Paddy
Farming situation	Irrigated, Black clay loam
Prioritized problem (short)	Low yield (48.27 q/ha)due to non-adoption of improved variety and non-adoption of improved crop management practices in an area of 2100 ha under direct sown rice.
Title of the OFT	Assessment of Paddy variety forKodai season in Theni District
Technology options	
TO-1	CO 55
Source and year	TNAU 2022
Description (short)	It is medium slender rice with 115 days duration. The average yield- 65 q/ha. Milling – 69 %, head rice recovery 60 %.
Potential yield/income	65 q/ha
Critical Inputs and cost	CO 55 seeds- 10kg – Rs.400 Azospirillum – 0.5 Lit – Rs.200 Pheromone trap- 5 Nos. – Rs. 400
Source of Inputs	TNAU
Photos	
TO-2	RNR 15048
Source and year	PJTSAU, 2021
Description (short)	Duration: 120 days, Milling – 70 %, Head Rice recovery – 67 %, Blast resistant, short slender rice, yield (60.00 q/ha)
Potential yield/income	60.50 q/ha
Critical inputs& quantity and cost	RNR 1504 seeds- 10 kg – Rs.400 Azospirillum – 0.5 Lit – Rs.200 Pheromone trap- 5 Nos. – Rs. 400
Source of Inputs	PJTSAU and Agricultural department.
Photos	
Farmers Practice	NLR 34449
Farmers yield	48.25 q/ha
Season	Summer
Cost per replication (Rs.)	2400
No. of replications	5
Total cost for the OFT	Rs.12000
Parameters to be studied	No.of Productive tillers, Panicle length (cm), No of grains per panicle, Grain yield (q/ha), YSB incidence (%) and Market Price (Rs/q), Gross income (Rs/ha) Net Income (Rs/ha) and economics
Parameters to be reported	No.of Productive tillers, Grain yield (q/ha), YSB incidence (%) and Market Price (Rs/q), Gross income (Rs/ha) Net Income (Rs/ha) and economics
Source of funding (KVK-	KVK- Main

Main/TSP/ /SC SP/ Project/Others (specify)	
Team members	SMS (Agronomy), SMS (Plant Protection)

OFT No.	2
Status (New proposal/2nd year /3rd year)	New Proposal
Subject,	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Oilseeds
Crop/ enterprise	Groundnut
Farming situation	Rainfed, res loamy soil
Prioritized problem (short)	Low yield (12.6 q/ha) due to non-adoption suitable improved variety and lack of knowledge about Integrated Crop management practices.
Title of the OFT	Assessment of High yielding Groundnut variety for Theni District
Technology options	
TO-1	VRI 10
Source and year	TNAU, 2022
Description (short)	VRI 9 - It is a Spanish bunch variety .duration of 95 days. Average yield is 25 q/ha. Oil content 47%. 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	29 q/ha
Critical Inputs and cost	VRI 10 seeds 20 kg – Rs. 2600, Groundnut rich 2 kg – Rs.500 /trail
Source of Inputs	RRS, viridhachalam and TNAU
Photos	
TO-2	KADIRI LEPAKSHI
Source and year	ANGARU, 2020
Description (short)	KADIRI LEPAKSHI - It is a Spanish bunch variety , Crop duration – 112 days , Average Yield 35 q/ ha, Oil Content – 51 % , Multiple resistant for drought, pests and diseases.
Potential yield/income	35 q/ha
Critical inputs& quantity and cost	KADIRI LEPAKSHI seeds 20kg /trail Rs-2600, groundnut Rich – 2kg Rs.500/trail
Source of Inputs	PJTSAU and TNAU
Photos	
Farmers Practice	JL 24
Farmers yield	12.5 q/ha

Season	Kharif
Cost per replication (Rs.)	6600
No. of replications	5
Total cost for the OFT	Rs.33000
Parameters to be studied	No. of Pods / plant, No.of filled pods/plant, yield (q/ha), Gross income (Rs/ha) and Net income (Rs/ha), BCR
Parameters to be reported	No of filled pods/plant, yield (q/ha), Gross income (Rs/ha) and Net income (Rs/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK – Main
Team members	SMS (Agronomy), SMS (Soil Science)

OFT No.	3
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Varietal evaluation
Category (if applicable)	Millet
Crop/ enterprise	Cumbu
Farming situation	Rainfed, red loamy soil
Prioritized problem (short)	Cumbu is the main millet crop in theni district more than 1034 ha land under cumbu cultivation. The farmers are getting Poor yield (11.5 q/ha) due to poor crop management practices and non availability of improved Cumbu varieties.
Title of the OFT	Assessment of Bio fortified Cumbu hybrid for Theni District
Technology options	
TO-1	COH 10
Source and year	TNAU, 2023
Description (short)	Duration – 85 days, Grain yield – 30.2 q/ha, Iron content (59 ppm)
Potential yield/income	30.2q/ha
Critical Inputs and cost	COH10 Seeds 2kg Rs. 200, MN mixture 5 kg Rs.600, Azospirillum 0.5 lit Rs. 200/trail
Source of Inputs	TNAU
Photos	
TO-2	AHB 1200
Source and year	ICRISAT, 2018
Description (short)	Rich in Iron (73 ppm), Grain yield (32 q/ha), Duration- 70 days
Potential yield/income	32 q/ha
Critical inputs& quantity and cost	AHB 1200 Seeds 2kg Rs. 200, MN mixture 5 kg Rs.600, Azospirillum 0.5 lit - Rs. 200/trail
Source of Inputs	ANGARU and TNAU

Photos	
Farmers Practice	ICMV 221
Farmers yield	11.5 q/ha
Season	Kharif
Cost per replication (Rs.)	2400
No. of replications	5
Total cost for the OFT	Rs.12000
Parameters to be studied	No.of Productive tillers, Panicle length (cm), Grain yield (q/ha), Gross income (Rs/ha) and Net income (Rs/ha), BCR
Parameters to be reported	No.of Productive tillers, Panicle length (cm), Grain yield (q/ha), Gross income (Rs/ha) and Net income (Rs/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agronomy) SMS (Home Science)

OFT No.	4
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agronomy
Theme	Crop Management
Category (if applicable)	Pulses
Crop/ enterprise	Redgram
Farming situation	Rainfed, red loamy soil
Prioritized problem (short)	Redgram variety vellaithuvarai is long duraion crop (250-280 days). Low income due to sole crop cultivation.
Title of the OFT	Assessment of Suitable Intercrop for Redgram
Technology options	
TO-1	Redgram + Samai (ATL 1) (1:4)
Source and year	TNAU, 2022
Description (short)	Redgramintercroipped with Samai at 4:1 for higher ecnomic yield
Potential yield/income	23 q/ha
Critical Inputs and cost	Samai seeds 2 kg Rs. 100, MN mixture 5 kg Rs.600, Azospirillum 0.5 lit Rs. 200/trail
Source of Inputs	TNAU
Photos	
TO-2	Redgram + Green gran (CO 8) (3: 1)
Source and year	TNAU 2020
Description (short)	Redgram intercropped with CO 8 Green gram at 3: 1 ratio for higher ecomonimcsreteun
Potential yield/income	21 q/ha
Critical inputs& quantity and cost	Green gram seeds 2 kg Rs. 250, MN mixture 5 kg Rs.600, Azospirillum 0.5 lit - Rs. 200/trail
Source of Inputs	TNAU
Photos	
Farmers Practice	Redgram

Farmers yield	14.7 q/ha
Season	Kharif
Cost per replication (Rs.)	1950
No. of replications	5
Total cost for the OFT	Rs.9750
Parameters to be studied	Crop equevalent yield, Gross income (Rs/ha) and Net income (Rs/ha), BCR
Parameters to be reported	Crop equevalent yield, Gross income (Rs/ha) and Net income (Rs/ha), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agronomy)

OFT No.	5
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Horticulture
Theme	Varietal Evaluation
Category (if applicable)	Vegetable Crops
Crop/ enterprise	Lab lab
Farming situation	Irrigated, Red sandy loam
Prioritized problem (short)	Non availability of improved variety and low yield, High incidence of pest and disease.
Title of the OFT	Assessment of suitable high yielding varieties of Lablab in Theni District.
Technology options	
TO-1	Lab lab CO 16
Source and year	TNAU-2023
Description (short)	A selection made from the progenies derived from the cross combination of Lp (b) 03 x Lp (b) 36. June – July and October – November. Yield:16.5 t/ha. Kozhikkaalavarai type. Photo-insensitive and suitable for year round cultivation. Early bearing with 50-55 days for first harvest. 12-15 pickings can be made in four months duration. Less infestation by Maruca pod borer (5.5%). Recommended for cultivation in all over districts of Tamil Nadu.
Potential yield/income	16.5 tonnes/ha
Critical Inputs	Seeds, IIHR vegetable special, Trichoderma viridae and Field board.
Source of Inputs	TNAU-2023
Photos	
TO-2	Arka jay
Source and year	IIHR,2017
Description (short)	Developed through back cross and pedigree selection involving the Parents Hebbal Avare x IIHR 93. Plants dwarf, bushy, erect and photo insensitive. Flowers purple. Pods long, light green slightly curved, Without parchment. Vegetable type with excellent cooking qualities. Tolerant to low moisture stress. Duration 75 days.
Potential yield/income	12 t/ha.
Critical inputs & quantity and cost	Seeds, IIHR vegetable special, Trichoderma virideand Field board.

Source of Inputs	IIHR, Bangalore
Photos	
Farmers Practice	Private hybrid
Farmers yield	10 t/ha.
Season	Kharif
Cost per replication (Rs.)	1200
No. of replications	5
Total cost for the OFT	6000
Parameters to be studied	Number of pods per plant, Number of seeds per pod, pod weight (g), Yield (t/ha), BCR
Parameters to be reported	Yield (t/ha), Gross income, Gross cost and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Horticulture) and SMS (Plant Protection)

OFT No.	6
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Horticulture
Theme	Varietal Evaluation
Category (if applicable)	Vegetable crops
Crop/ enterprise	Ridge gourd
Farming situation	Irrigated, Red sandy loam
Prioritized problem (short)	Non availability of improved variety and low yield, High incidence of pest and disease.
Title of the OFT	Assessment of suitable high yielding varieties of Ridge Gourd in Theni District.
Technology options	
TO-1	Ridge gourd MDU-1
Source and year	TNAU-2023
Description (short)	A selection made from the progenies derived from the cross combination of Virudhunagar local x Periyakottai local. June – July and December - January under irrigated conditions. Yield:18.75 tons/ha. Medium sized fruits (29-30 cm length) with soft pulp. 10-15 pickings can be made in four months duration. Suitable for preparation of jam, thokku and pickles. Field tolerant to fruit fly. Recommended for cultivation in all over districts of Tamil Nadu.
Potential yield/income	18.75 tonnes/ha
Critical Inputs	Seeds, IIHR vegetable special, Trichoderma virideand Field board.
Source of Inputs	TNAU, 2023
Photos	
TO-2	Arka Prasan
Source and year	IIHR, 2016
Description (short)	Open pollinated variety developed by inbred selection from the segregating germplasm, IIHR-53. Early variety (42-45 days for first picking), green, long, tender

	fruits, excellent cooking quality, nutritionally rich in antioxidant activity and minerals like phosphorus, Calcium and zinc. Yields 26.0 t/ha in 120-135 days.
Potential yield/income	26.0 t/ha
Critical inputs & quantity and cost	Seeds, IIHR vegetable special, Trichoderma virideand Field board.
Source of Inputs	IIHR, Bangalore
Photos	
Farmers Practice	Private Hybrid
Farmers yield	23 t/ha
Season	Kharif
Cost per replication (Rs.)	1000
No. of replications	5
Total cost for the OFT	5000
Parameters to be studied	Days taken for first picking, Weight of fruit (g), Number of fruits per plant, Yield per plant (kg), Yield per hectare (t) and BCR
Parameters to be reported	Yield per hectare (t) Gross income, Gross cost and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Horticulture) and SMS (Plant Protection)

OFT No.	7
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Horticulture
Theme	Varietal Evaluation
Category (if applicable)	Vegetable Crops
Crop/ enterprise	Brinjal
Farming situation	Irrigated, Red sandy loam
Prioritized problem (short)	Non availability of improved variety and low yield, High incidence of pest and disease.
Title of the OFT	Assessment of suitable high yielding varieties of Brinjal in Theni District.
Technology options	
TO-1	Brinjal, MDU-2
Source and year	TNAU-2022
Description (short)	It is a derivative of ACM SM 9 x Annamalai 1 brinjal. The crop duration is 140 days. The average yield is 31 t/ha. The variety is suitable for cultivation in June – September and November – February. It has moderate resistance to phytoplasma diseases and shoot fly incidence.
Potential yield/income	31 tonnes/ha
Critical Inputs	Seeds, IIHR vegetable special, Trichoderma virideand Field board.
Source of Inputs	TNAU, 2022
Photos	
TO-2	Arka Neelachal Shyama
Source and year	IIHR, 2017
Description (short)	F1 hybrid of the cross MS4 (A line) X IHR 3315(R line). It is an early variety developed through selection. Suitable for rabi season. Fruits are round and green with

	light purple shade. Fruits weigh: 190-200g. It is moderately tolerant to Phomopsis blight.
Potential yield/income	34 tonnes/ha
Critical inputs & quantity and cost	Seeds, IIHR vegetable special, Trichoderma virideand Field board.
Source of Inputs	IIHR, Bangalore
Photos	
Farmers Practice	Private hybrid
Farmers yield	25-30 t/ha
Season	Rabi
Cost per replication (Rs.)	1000
No. of replications	5
Total cost for the OFT	5000
Parameters to be studied	Seedling Establishment (%), Number of fruits/plants, Fruit weight (g), Yield (t/ha), BCR
Parameters to be reported	Yield (t/ha), Gross cost, Gross income and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Horticulture) and SMS (Soil Science)

OFT No.	8
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Soil Science
Theme	Crop Production and Management
Category (if applicable)	Pulses
Crop/ enterprise	Black gram
Farming situation	Rainfed, red sandy loam
Prioritized problem (short)	Black gram is cultivated in about 250 ha in the district. Farmers are getting low yield (6.2 q/ha) due improper nutrient management practices and non-application of growth regulators.
Title of the OFT	Assessment of performance of TNAU Vigour plus in pulses under rainfed condition
Technology options	
TO-1	TNAU Vigour plus
Source and year	TNAU SWC, 2022
Description (short)	TNAU Vigourplus is a pre-sowing seed coating nano-formulation, contains biopolymer nano matrix infused with plant growth promoting hormones. Pulses seeds are coated with 20-25 of Vigourplus per kg and shade dried for 30 minutes. It helps to improve germination, seedling growth and crop establishment leading to high input use efficiency.
Potential yield/income	7.8 q/ha
Critical Inputs	TNAU Vigour plus, Field board; Rs.800
Source of Inputs	TNAU

Photos	 
TO-2	Bio-Pulse
Source and year	National Bureau of Agriculturally Important Microorganisms (NBAIM 2020)
Description (short)	Bio-Pulse can be used for cereals, millets, pulses, vegetables, plantation crops, etc. Inoculation can be done through seed treatment, root dip for seedlings and soil application for tree and plantation crops. Application of Bio-Pulse as seed bio priming with recommended dose of fertilizer resulted in yield increase in chickpea (15-25%), pea (20-30%), lentil (10-20%) and papaya (25-42%) under different pathogenic stress as compared to pathogen challenged condition.
Potential yield/income	7.5 q/ha
Critical inputs & quantity and cost	Bio-Pulse, Field board; 5 kg, 1 nos; Rs.800
Source of Inputs	NBAIM 2020
Photos	 
Farmers Practice	Without application of growth promotors
Farmers yield	6.2 q/ha
Season	Kharif 2023
Cost per replication (Rs.)	Rs.1600
No. of replications	5
Total cost for the OFT	Rs. 8000
Parameters to be studied	Plant height (cm), number of pods per plant, pod yield (q/ha), 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	SMS (Soil Science) and SMS (Agronomy)

OFT No.	9
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Theme	Crop Production and Management
Category (if applicable)	Vegetables
Crop/ enterprise	Tomato
Farming situation	Irrigated, red sandy loam
Prioritized problem (short)	Tomato is cultivated in about 450 ha in the district under irrigated. Farmers are getting low income due to imbalanced nutrient application. Low productivity and profitability in view of increased production cost due to high usage of chemical fertilizers

Title of the OFT	Assessment of performance of Bio NPK formulation in Tomato
Technology options	
TO-1	Bio NPK formulation
Source and year	National Bureau of Agriculturally Important Microorganisms (NBAIM 2020)
Description (short)	Bio NPK Liquid Biofertilizer is a unique kind of bioformulation comprising nitrogen (N2) fixing (Azotobacter chroococum), P-solubilizing (Paenibacillustylopili) and K-solubilizing (Bacillus decolorationis) bacteria. It has a longer shelf life (12–24 months) without loss of microbial populations and properties upon exposure to high temperature. Bio NPK has shown remarkable response in the farmers' fields with respect to crop growth and yield. It could save the usage of chemical fertilizers from 25 to 50% of the recommended dose without compromising yield and growth of the plants.
Potential yield/income	32.40 t/ha
Critical Inputs	Bio NPK formulation, Field board; Rs.800
Source of Inputs	NBAIM, Mau
Photos	 
TO-2	Arka Microbial Consortium
Source and year	IIHR 2020
Description (short)	Arka microbial consortium is a carrier based product which contains n fixing, P & Zn solubilizing and plant growth promoting microbes as a single formulation. The novelty of this technology is that farmers need not apply n fixing, phosphorous solubilizing and growth promoting bacterial inoculants individually. It can be conveniently, applied either through seed, soil, water and nursery media like coco-peat. This technology considerably reduces the cost of cultivation, besides the synergistic effects of the formulated microbes can help in sustainable vegetable production.
Potential yield/income	29.60 t/ha
Critical inputs & quantity and cost	Arka Microbial Consortium and field board; 5 kg and 1; Rs.400 and Rs.400
Source of Inputs	IIHR, Bengaluru
Photos	 
Farmers Practice	High usage of chemical fertilizer
Farmers yield	23.40 t/ha
Season	Rabi 2023
Cost per replication (Rs.)	Rs.1600
No. of replications	5
Total cost for the OFT	Rs. 8000
Parameters to be studied	Plant height (cm). number branches per plant, number flower per plant, number of fruits per plant, fruit weight, fruit yield (q/ha), pest and disease incidences, gross cost, gross income, net income, BCR

Parameters to be reported	Fruit yield, gross expenditure, gross income, net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Soil Science) and (SMS Horticulture)

OFT No.	10
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Soil Science
Theme	Crop Production and Management
Category (if applicable)	Oil seeds
Crop/ enterprise	Groundnut
Farming situation	Rainfed, red sandy loam
Prioritized problem (short)	Groundnut is cultivated in about 200 ha in the district under rainfed. Low productivity due to imbalanced nutrient application and non-application of growth promotors.
Title of the OFT	Assessment of performance of Nut Boost in Groundnut under rainfed condition
Technology options	
TO-1	Nut Boost
Source and year	Directorate of Groundnut Research, Junagadh 2020
Description (short)	A formulation of consortium of PGPRs (P, K, and Zn solubilizer) comprising of Pseudomonas gessardii BHU1(PGPR1), Pseudomonas putida S1(6) (PGPR2) and Pseudomonas aeruginosa BM6 (PGPR4) isolated at Junagadh from groundnut rhizosphere. Seed inoculations can enhance pod yields by 16.5 to 18.1 % over the un-inoculated
Potential yield/income	17.2 q/ha
Critical Inputs	Nut Boost, Field board;5 kg; Rs.1000
Source of Inputs	DGR 2020
Photos	 
TO-2	Foliar Nutrition of Groundnut Rich - 2 sprays of TNAU groundnut rich @ 5.0 kg/ha (for each spray) at 35 DAS (50 per cent flowering) and 45 DAS (Pod developing stage) in 500 litres of water is recommended
Source and year	CPG 2020 TNAU
Description (short)	To increase flower retention, pod filling and to induce drought tolerance apart from yield improvement.
Potential yield/income	19.8 q/ha
Critical inputs & quantity and cost	TNAU groundnut rich and field board; 5 kg, and 1 nos; Rs.600 and Rs.400
Source of Inputs	TNAU
Photos	  
Farmers Practice	Application of DAP and Complex fertilizer without any crop boosters

Farmers yield	14.5 q/ha
Season	Rabi 2023
Cost per replication (Rs.)	Rs.2000
No. of replications	5
Total cost for the OFT	Rs. 10000
Parameters to be studied	Pod and haulm yield, pest and disease incidences, irrigation requirement, 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	SMS (Soil Science) and (SMS Agronomy)

OFT No.	11
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Theme	Plant Protection
Category (if applicable)	Horticulture
Crop / Enterprise	Jasmine
Farming situation	Irrigated, Red soil
Prioritized problem (short)	1. Tiny caterpillar makes holes on the flower bud, feeds on the inner content of the bud It makes a circular hole on the corolla tube emerges and tunnels to move into other buds of the same shoot. Infested flowers turn violet in colour, and fall off. 2. Affected bud worm incidence is high (35 %). So yield loss (14.7q/ha) Due to lack of knowledge inIPM practice.
Title of the OFT	Assessment of integrated bud worm management in Jasmine
Technology options	
TO -1	NSKE 5% or Thiacloprid 240 SC @ 1 ml /lit Spinosad 45SC 0.5ml/lit (3 spray)
Source and year	TNAU, 2020
Description (short)	NSKE 5% or Thiacloprid 240 SC @ 1 ml /lit Spinosad 45SC 0.5ml/lit (3 spray)
Potential yield/income	49 q/ha
Critical Inputs and cost	NSKE 5% or Thiacloprid 240 SC @ 1 ml /lit(3 spray)
Source of Inputs	TNAU, 2020
Photos	
TO -2	Apply carbofuran at 40g/plant basally, Proper Pruning and hygienic maintenance of bushes., Spray NSKE 5% after proper pruning (Jan), Spray *Bacillus thuringinensis* 2 g/ltr 7 DAFS, Helilure Pheromone traps 5 No./acre and Light trap 1 No/acre. Spraying of Spinosad 0.3 ml and Thaicloprid 1 ml per ltr of water with 7 days inetrval) (3 spray)
Source and year	ICAR -N.G Ranga Agricultural University, KVK Nellore, **2018**
Description (short)	Apply carbofuran at 40g/plant basally, Proper Pruning and hygienic maintenance of bushes., Spray NSKE 5% after proper pruning (Jan), Spray *Bacillus thuringinensis* 2 g/ltr 7 DAFS, Helilure Pheromone traps 5 No./acre (3 spray)
Potential yield/income	45.32 q/ha
Critical Inputs and cost	Helilure Pheromone traps 5 No./acre
Source of Inputs	ICAR- N.G Ranga Agricultural University, KVK Nellore, **2018**
Photos	

Farmers Practice	Emamectin benzoate 5 % SG (2 spray)
Farmers yield	39.2 q/ha
Season	Kharif
Cost per replication (Rs.)	1,720
No. of replications	5
Total cost of the OFT	8,600
Parameters to be studied	Total No. of buds infected/plant, Yield, Gross income Net income, B:C ratio
Parameters to be reported	Total No. of buds infected/plant, Yield, Gross income Net income, B:C ratio
Source of funding	KVK Main

OFT No.	12
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Theme	Plant Protection
Category (if applicable)	Horticulture
Crop / Enterprise	Tomato
Farming situation	Irrigated, Red soil
Prioritized problem (short)	1.Young larvae feed on tender foliage. Mature larvae bore circular holes. Thrust only a part of its body into fruit and eat the inner content. 2.Affected fruit borer incidence is high (45 %). So Yield loss(499 q/ha). Due to lack of knowledge inIPM practice.
Title of the OFT	Assessment of IPM modules against Tomato pin worm
Technology options	
TO -1	Collect and destroy the pinworm affected plants and fruits Keep pheromone traps @ 5 nos./ac to attract and kill the adult moths *Trichogramma chilonis* @ 20,000/ac/release, coinciding with flowering time. Spray Chlorantraniliprole 18.5% SC @ 60 ml or Flubendiamide 20% WG @ 60 ml or Indoxacarb 14.5% SC @ 100ml or Neem formulation (Azadirachtin 1% or 5%) @ 400 – 600 ml/ac. (3 spray)
Source and year	TNAU, 2020
Description (short)	Set up pheromone traps @12/ha. Quinalphos 25 EC 10 ml/10lit, Neem formulation (Azadirachtin 1% or 5%) @ 400 – 600 ml/ac. (3 spray)
Potential yield/income	612.5q/ha
Critical Inputs and cost	pheromone traps @12/ha, Quinalphos 25 EC 10 ml/10lit , Neem formulation (Azadirachtin 1% or 5%) @ 400 – 600 ml/ac. (3 spray)
Source of Inputs	TNAU,2022
Photos	
TO -2	Seed treatment with imidacloprid 48 % FS @ 7g/kg of seeds, seedling dip with imidacloprid 17.8 SC @ 0.5 ml/l, Collection and destruction of infested leaves, Installation of sticky traps at 30/ac, installation of sex pheromone traps 20/ac Spraying of chlorantraniliprole 18.5 SC @ 0.3 ml/l, spinoteram12 SC @ 1.25 ml/l followed by flubendiamide 480 SC @ 0.3 ml/l (3 spray)
Source and year	ICAR- IIHR, Bangalore, 2018
Description (short)	Dip seedlings in imidacloprid (0.3 ml/l) or thiomethoxam (0.3g/l). Installation of sticky traps at 30/ac, installation of sex pheromone traps 20/ac
Potential yield/income	575.75 q /ha

Critical Inputs and cost	Dip seedlings in imidacloprid (0.3 ml/l) or thiomethoxam (0.3g/l). Installation of sticky traps at 30/ac, installation of sex pheromone traps 20/ac
Source of Inputs	UAHS, Shivamogga 2022
Photos	
Farmers practice	Quinalphos 1.5 ml/lit
Farmers yield	455.7 q/ha
Season	Rabi
Cost per replication (Rs.)	3,500
No. of replications	5
Total cost of the OFT	17,500
Parameters to be studied	Total No. of buds infected / Plant , Yield, Grossincome, Net income, B:C ratio
Parameters to be reported	Total No. of buds infected / Plant , Yield, Gross income, Net income, B:C ratio
Source of funding	KVK Main

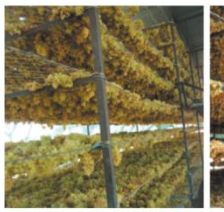
OFT No.	13
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Theme	Plant Protection
Category (if applicable)	Horticulture
Crop / Enterprise	Grapes
Farming situation	Irrigated, Red soil
Prioritized problem (short)	1. Whitish or greenish-white powdery patches on the undersides of basal leaves. 2.Affected powdery mildew diseases incidence is high (45%). So yield loss (499 q/ha). Due to lack of knowledge inIDM practice.
Title of the OFT	Assessment of integrated disease management for powdery mildew in grapes
Technology options	
TO -1	1. Spray wettable sulphur@ 0.3% or dust sulphur @ 6 -12 kg/ha in the morning or azoxystrobin @ 150 a.i./ha (600 ml/ha) at 30 days after pruning five times at 10 days interval (3 spray)
Source and year	TNAU, 2020
Description (short)	Spray wettable sulphur@ 0.3%, azoxystrobin @ 150 a.i./ha (600 ml/ha) (3 spray)
Potential yield/income	176.4 q/ha
Critical Inputs and cost	Spray wettable sulphur@ 0.3%, azoxystrobin @ 150 a.i./ha (600 ml/ha) (3 spray)
Source of Inputs	TNAU, 2020
Photos	
TO -2	Azoxystrobin+ Difenconazole 0.5 ml/l or Mycloblutanil 1.0g/l or Puprimet 25 EC 1 ml/l (3 spray) Regular application of *Ampelomyces quisqualis* should be done @5-6g/L at regular intervals for control of powdery mildew.
Source and year	ICAR-NRCG, Pune, 2018
Description (short)	Azoxystrobin+ Difenconazole 0.5 ml/l, Mycloblutanil 1.0g/l (3 spray) *Ampelomyces quisqualis* should be done @5-6g/L at regular intervals for control of powdery mildew.
Potential yield/income	159.25 q/ha

Critical Inputs and cost	*Ampelomyces quisqualis* should be done @5-6g/L at regular intervals for control of powdery mildew.
Source of Inputs	ICAR-NRCG, Pune, 2018
Photos	
Farmer practice	Wettable sulphur 0.3 % & Myclobutanil 1.5 g/lit
Farmers yield	110.25 q/ha
Season	Kharif
Cost per replication (Rs.)	1,500
No. of replications	5
Total cost of the OFT	7,500
Parameters to be studied	No. of infected leaves, flower and fruits, Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves, flower and fruits, Yield, Gross income, Net income, B:C ratio
Source of funding	KVK Main

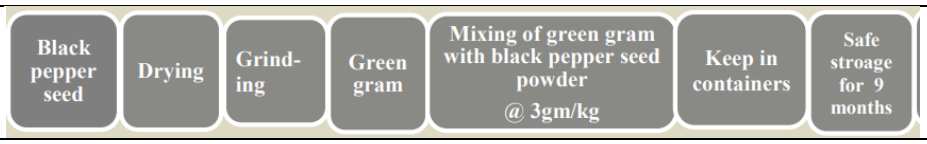
OFT No.	14
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Theme	Plant Protection
Category (if applicable)	Horticulture
Crop / Enterprise	Brinjal
Farming situation	Irrigated, Red soil
Prioritized problem (short)	1. Withering of terminal shoots/dead hearts. Bore holes on shoots and fruits plugged with excreta. Shedding of flower buds, Withering and drying of leaves 2. Affected fruit borer pest incidence is high (35 %). So yield loss (22.05 q/ha). Due to lack of knowledge inIPM practice.
Title of the OFT	Assessment of IPM practices for Brinjal fruit and shoot borer
Technology options	
TO -1	Install pheromone trap@12/ha Remove the affected terminal shoot showing boreholes. Remove the affected fruits and destroy. Spray Neem Seed Kernel Extract 5 % Spray of any one of the insecticides based on Economic threshold Emamectin benzoate 5% SG 4g/10 lit, Dimethoate 30% EC 7ml/10 lit, Flubendamide 20 WDG 7.5g/10 lit and Thiodicarb 75% WP 2g/lit(3 spray)
Source and year	TNAU, 2020
Description (short)	Install pheromone trap@12/ha, Emamectin benzoate 5 % SG4 g/10 lit , Spray Neem Seed Kernel Extract 5 % (3 spray)
Potential yield/income	551.25 q /ha
Critical Inputs and cost	Install pheromone trap@12/ha, Emamectin benzoate 5 % SG4 g/10 lit , Spray Neem Seed Kernel Extract 5 % (3 spray)
Source of Inputs	TNAU, 2022
Photos	
TO -2	Pheromone traps @ 1 for 400 sq. m. Weekly release of 50,000 to 60,000 *Trichogramma chilonis* Two sprays of *Bacillus thuringensis* @1ml/l at 10 days interval

	at peak flowering stage (3 spray)
Source and year	ICAR- IIHR, 2022
Description (short)	Pheromone traps @ 1 for 400 sq. m. Weekly release of 50,000 to 60,000 *Trichogramma chilonis* Two sprays of *Bacillus thuringensis* @1ml/l (3 spray)
Potential yield/income	49 q/ha
Critical Inputs and cost	Pheromone traps @ 1 for 400 sq. m. Weekly release of 50,000 to 60,000 *Trichogramma chilonis* Two sprays of *Bacillus thuringensis* @1ml/l (3 spray)
Source of Inputs	ICAR- IIHR, 2022
Photos	
Season	Kharif
Cost per replication (Rs.)	1,500
No. of replications	5
Total cost of the OFT	7,500
Parameters to be studied	No. of infected fruit , Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected fruit , Yield, Gross income, Net income, B:C ratio
Source of funding	KVK Main

OFT No.	15
Status (New proposal/2nd year /3rd year)	New Proposal
Subject,	Home Science
Theme	Post Harvest Management
Category (if applicable)	Dehydration Techniques
Crop/ enterprise	Grapes
Farming situation	-
Prioritized problem (short)	Low selling price during peak harvest period-Rs. 5/kg Lack of knowledge on dry grapes processing techniques
Title of the OFT	Assessment of different processing and drying technologies for making dry grapes
Technology options	
TO-1	Abrasive Pre treatment- Solar dryer or hot air dryer (at 50°C)
Source and year	ICAR-CIAE, Bhopal and 2019
Description (short)	The berries are treated in abrasive pre-treatment equipment to remove the waxy layer from the surface berries. The abrasive pre-treatment, being a physical process, prevents use of chemicals in the process of raisin making. The treated berries are further dried in solar dryer or hot air dryer (at 50°C). It is suitable to prepare raisins without use of chemicals, reduces the drying time by 40 to 50% as compared to conventional shade drying with chemical pre-treatment.
Potential yield/income	Capacity of de-bunching machine and abrasive pre-treatment system is around 130-150 kg/h.
Critical Inputs	Grape de-bunching machine, abrasive pre-treatment equipment
Source of Inputs	ICAR-Central Institute of Agricultural Engineering, Nabibagh, Berasia Road, Bhopal-462038 Madhya Pradesh
Photos	
TO-2	Ethyl oleate (1.5%), Potassium carbonate (2.5%), A spray of 300 ppm ascorbic acid on

	third day of drying +Grape drying shed
Source and year	ICAR-NRCG, Pune and 2018
Description (short)	Harvesting (>22° Brix),Washing of bunches with clean water to remove dust, Dripping in solution (1.5% Ethyl oleate and 2.5% potassium carbonate for 2-4 min.), Spread grape bunches in side grape drying shed, 1-1.5 kg/sq ft, turn bunches, removal at 14-16% moisture-Cleaning and washing-Removal of moisture from surface-Grading : Size and colour based-Packing (food grade material)- Storage at 4-6°C temperature-A spray of 300 ppm ascorbic acid on third day of drying leads to better quality raisins.
Potential yield/income	-
Critical inputs & quantity and cost	Ethyl oleate, potassium carbonate, 400-gauge LDPE film bags and stored in corrugated boxes of 5 to 15 kg capacity at low temperature (4°C)
Source of Inputs	Food Grade Preservatives Store and A-Z Packaging Stores
Photos	 Inside view of drying shed  Raisin ready for collection  Variability in dried grapes
Farmers Practice	No Value Addition
Farmers yield	-
Season	Kharif 2023
Cost per replication(Rs.)	Rs. 2000/-
No. of replications	5
Total cost for the OFT	Rs.10,000/-
Parameters to be studied	Drying Time, Dehydration Ratio, Organoleptic Evaluation, Shelf life, BCR
Parameters to be reported	Drying Time, Dehydration Ratio, Organoleptic Evaluation, Shelf life, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	M.Ramyasivaselvi, SMS (Home Science)

OFT No.	16
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Home Science
Theme	Post Harvest Management
Category (if applicable)	Storage Loss Minimization Techniques
Crop/ enterprise	Pulses
Farming situation	-
Prioritized problem (short)	Lack of knowledge on storage loss minimization techniques
Title of the OFT	Assessment of different storage techniques for safe storage of Pulses
Technology options	
TO-1	Black pepper seed powder as grain protectant @ 3 g/kg of grain for safe storage of Pulses
Source and year	Assam Agricultural University, Jorhat and 2021
Description (short)	The harvested green gram is dried and the pulses is mixed thoroughly with black pepper seed powder @ 3 g/kg of grain and the treated pulses can be kept in plastic containers, jute bags with inner lining of polythene and also in metallic bins for a period of nine months without any damage by storage insect-pests.

	
Potential yield/income	Nine Months
Critical Inputs	Black pepper seed, IRRI Grain pro super bag
Source of Inputs	Super Market
Photos	 
TO-2	SWEET FLAG 6EC @ 10ml/kg of pulse seeds for the Management of Pulse Beetle in Seeds
Source and year	TNAU and 2019
Description (short)	TNAU SWEET FLAG 6EC @ 10ml/kg of pulse seeds (Greengram, Blackgram, Bengalgram and Cowpea) caused cent per cent mortality of pulse beetle on third to fifth day after six months of treatment. Germination of treated seeds was not affected after six months of storage.
Potential yield/income	Six Months
Critical inputs & quantity and cost	SWEET FLAG 6EC, IRRI Grain pro super bag
Source of Inputs	Bhuvi Care Pvt Ltd., Gangaikondan, Tirunelveli
Photos	  
Farmers Practice	Coating with clay, Gunny bags
Farmers yield	-
Season	Kharif 2023
Cost per replication (Rs.)	Rs.1500/-
No. of replications	5
Total cost for the OFT	Rs.7500/-
Parameters to be studied	No. of days, No. of insects/kg
Parameters to be reported	No. of days, No. of insects/kg
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	M.Ramyasivaselvi, SMS (Home Science)

Impact Studies	17
Status (New proposal/2nd year/3rd year)	New proposal
Subject	Agricultural Extension
Theme	Extension Studies
Category (if applicable)	-
Prioritized problem (short)	Low rate of adoption of Oilseeds technologies among farmers. CFLD is being conducted to improve the Oilseed Production hence, it is important to identify the gaps in adoption of technologies
Title of the study	Impact of CFLD (Oilseeds) on yield, economics and spread of technology in the

	district
Objectives	To study the yield, economics and technology spread among farmers
Methodology	This study will be conducted at Bodinayakannur and Andipatti blocks in Theni district. From the selected village all CFLD farmers were Purposively selected as respondents. The data will be collected through a well-structured and pre-tested interview schedule.
Year	2023
Expected Outcome	Output- Varietal spread, Horizontal spread, Technology adoption , Yield & BCR Outcome ✓ To evolve / develop suitable KVK intervention ✓ Mid term correction Policy decision
Duration	One year
No.of respondents	60
Total Cost of the study	Rs.10,000/- (Survey schedule, focused group discussions / meetings)
Sources of funding (KVK-Main/TSP//SC SP/ Project/Others (specify)	KVK Main
Team Members	SMS (Agricultural Extension)

OFT No/ Impact Studies	18
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agricultural Extension
Theme	Extension Studies
Category (if applicable)	-
Prioritized problem (short)	Natural farming is being practiced by farmers. A preliminary survey revealed that the natural farming practices adopted by farmers are unique to every farmer and the practices need to be documented, validated and GAP to be made available to other farmers
Title of the Study	Documentation and Potential of Natural / Organic farming as practiced by the farmers
Objectives	1. To identify the farmers practicing Natural and Organic farming in Theni district 2. 3. To document the best Natural / Organic farming practices followed by farmers through process documentation methods.
Methodology	• Process documentation Interview schedule will be developed for the study and used. • In addition, Audio / Video / Photography documentation will be done
Year	2023
Expected Outcome	1. A repository of farmers practicing Natural and Organic farming will be made available for further research and interventions. 2.A list of Organic and Natural farming practices will be available for further research / extension
Duration	One year
Total cost for the study	Rs. 10000/- (Video documentation, survey schedule, focused group discussions / meetings)
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agricultural Extension)

OFT No/ Impact Studies	20
Status (New proposal/2nd year /3rd year)	New proposal
Subject,	Agricultural Extension
Theme	Extension Studies
Category (if applicable)	-
Prioritized problem (short)	As the educational background of SC farmers are less, it is to necessary to formulate the study to ascertain how best they could understand, perceive and adopt the technologies. Based on the findings the training methodologies to be tuned if needed.
Title of the Study	Effectiveness of SCSP programme on improvement of farming practices among farming community
Objectives	✓ To assess the adoption of improved management practices by the SC farmers after training programme. ✓ To study the adoption level & yield increase
Methodology	▪ Total sample size : 60 ▪ Assessment Year : Past 3/5 years ▪ Data collection Tool : Interview Schedule
Year	2023
Expected Outcome	❖ Designing suitable KVK intervention ❖ Policy decision
Duration	One year
Total cost for the study	Rs 5000
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agricultural Extension)

9. Frontline Demonstrations proposed during 2023-24

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.	Cotton	Demonstration of High density planting in CO 17 Cotton	Farmers getting Low yield (11.7 q/ha) due non availability of Improved variety and improved Cultivation practices.	CO 17 Cotton under HDP	TNAU	New	10	4	30500	SMS (Agronomy), SMS (Plant Protection)	1	-
2.	Cumbu	Demonstration of CO 10 Cumbu with ICM practices	Farmers getting low yield (11.5 q/ha) due to non adoption of improved agricultural rpactices and non availability of improved varities.	CO 10 Cumbu	TNAU	New	10	4	10400	SMS (Agronomy), SMS (Agril. Extension)	1	9
3.	Sorghum	Demonstration of Sorghum K 13 variety with ICM	Low yield (13.5 q/ha) due to non availability of improved variety and poor crop management practices	K 13 with ICM	TNAU	New	10	4	22800	SMS Agronomy	1	-
4.	Tenai	Demonstration of ATL 1 Tenai variety	Lack of availability of improved Tenai	ATL 1	TNAU	2nd year	10	4	12500	SMS Agronomy	4	-

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
			variety									
5.	Groundnut	Demonstration of TMV 14 Groundnut variety	Low yield (12.5q/ha) due to poor crop management and lack of availability of improved varieties	VRI 10	TNAU	New	10	4	49500	SMS Agronomy	5	-
6.	Paddy	Demonstration of ADT 58 paddy variety with ICM	Low yield (47.5 q/ha) due to continues cultivation of same variety and incidence of Yellow Stem Borer	ADT 58 with ICM	TNAU	New	10	4	16000	SMS (Agronomy) , SMS (plant Protection)	-	10
7.	Grape	Demonstration of Colour improvement practices in Grapes *Muscat Hamburg.*	Uneven uniform colour improvement in Grape fruits, low market value and low shelf life	Pre Foliar spray of potassium di hydrogen phosphate @ 0.50% + ABA @ 150 ppm increased the fruit yield (16.85 kg vine-1) with the highest total anthocyanin content (49.26 mg 100g-1).	GRS, TNAU ,2023	New	10	4	10000	SMS (Horticulture) and SMS (Agronomy)	-	2
8.	Jasmine	Demonstration	Lack of	Pruning during	TNAU SWC	New	10	4	5000	SMS	-	2

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
		of Off season production of Jasmine in Theni District.	knowledge about off-season jasmine production, low yield and more pest and disease.	second week of August and application of Mepiquat chloride (500 ppm) 15 days after pruning induced off season flowering with a per plant yield of 273.28 g/ plant during October – January (1.57 t / ha). This helped in realizing high profit for the farmers.	2023	proposal				(Horticulture), SMS (Soil Science)		
9.	Tomato	Demonstration of BIOGROW liquid formulation in Tomato for higher productivity.	Low yield, Poor quality of fruits, Incidence of Pest and Diseases (Leaf Curl, Blossom End Rot, Bacterial wilt, Early blight).	BIOGROW has been developed using consortium of different bacterial species "viz., Bacillus sp. BC39, Bacillus sp. RC25, Pseudomonas sp. K30 and Pseudomonas sp. K31," endowed with phosphorus	ICAR-National Bureau of Agriculturally Important Microorganisms, Mau, 2020	New proposal	10	4	5000	SMS (Horticulture), SMS (Soil Science)	1	-

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
				solubilization, IAA and siderophore production attributes. Application of BIOGROW increased the yield of tomato by 25- 30%. Moreover, there was a significant improvement in nutritional quality of the produce as evident from enhanced content of lycopene and β-carotene.								
10.	Groundnut	Demonstration of Nut Magic in Groundnut for higher productivity	Farmers are getting low yield (14.5 q/ha) due to micronutrient deficiency and non-application of growth promotors/boosters.	Nut Magic	DGR, Junagadh (2020)	New	10	4	15000	SMS (Soil Science) and (SMS Agronomy)	-	2
11.	Paddy	Demonstration of IFFCO Nano Urea in	Farmers often use excessive dose of	IFFCO Nano Urea	IFFCO, 2021	New	10	4	8000	SMS (Soil Science) and (SMS	-	2

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
		Paddy cultivation	nitrogenous fertilizer, this leads to high cost of fertilizer low fertilizer use efficiency and other environmental problems.							Agronomy)		
12.	Tomato	Demonstration of TNAU Rhizoboost for enhancement of yield in Tomato	Farmers are getting low yield due to high flower drop. Lack awareness about crop boosters.	TNAU Rhizoboost	TNAU SWC, 2022	New	10	4	8000	SMS (Soil Science) and (SMS Horticulture)	-	-
13.	Sugarcane	Demonstration of TNAU sugarcane booster for increasing productivity in Sugarcane	Farmers getting low yield (96.8t/ha) due to lack of awareness about crop boosters.	TNAU sugarcane booster	TNAU, 2014	New	10	4	12000	SMS (Soil Science) and (SMS Agronomy)	-	2
14.	Mango	Demonstration for IPDM practices in Mango	Due to lack of awareness in management practices, Affected leaf Webber and hoppers incidence is high	Apply *Metarhizium anisopliae* or *Beauveria bronchitii* @ 108 cfu /ml on tree trunk once during off season	TNAU 2020	New	10	4	25,000	SMS (Plant Protection) & SMS (Horticulture)	-	2

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
			(45%). So low yield (2000kg/acre)	and twice at 7 days interval during flowering season. Spraying of *B.subtilis* immediately after flowering @ 5 g/ l five times at 21 days interval. Setting up of Fruit fly trap Arka Dorsolure -F and Arka Bactro+ @10 Nos/ac Neem oil @ 3% ml/lit of water								
15.	Banana	Demonstration of Bio-Consortia for sigatoka leaf spot Management in banana	Due to lack of awareness in management practices, Affected sigatoka leaf spot diseases (30 %). So low yield (15000 kg/acre).	Spraying of Bio-Consortia @50g per lit from 4th month after planting at 20 days interval (3sprays)	ICAR-NRCB 2022		10	4	20,000	SMS (Plant Protection) & SMS (Horticulture)	-	2
16.	Maize	Demonstration of refined IPM Module for Maize Fall Armyworm	Due to lack of awareness in management practices, Affected Fall armyworm	Application of neem cake @ 250 kg/ha at the time of last ploughing to increase the plant	TNAU 2022	2nd Year	10	4	20,000	SMS (Plant Protection) & SMS (Agronomy)	-	2

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
			incidence is high (40%). So Yield loss (200 kg/acre).	and soil health Seed treatment with cyantraniliprole 19.8% +thiamethoxam19.8% FS @ 4 ml/kg seed. Border cropping with cowpea, gingelly/ redgram or sunflower in garden land conditions and fodder sorghum in dry land conditions @ three rows of selected crop Monitoring of FAW adults using pheromone traps @ 12/ha Window based application of insecticides Early whorl stage (15 – 20 DAE): Chlorantraniliprole 18.5 SC @ 0.4								

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
				ml/ lit (or) flubendiamide 480 SC @ 0.5 ml/lit at early stage (15 - 20 DAE) followed by azadirachtin 1500 ppm @ 5 ml/lit on need basis Late whorl stages (35-40 DAE): Emamectin benzoate 5 SG @ 0.4 g/lit or novaluron 10 EC @ 1.5 ml/lit or spinetoram 11.70 SC @ 0.5 ml/lit Tasseling and cob formation stage (only if required): Spinetoram 11.70 SC @ 0.5 ml/lit (or) emamectin benzoate 5 SG @ 0.4 g/lit (which was not sprayed at late whorl stage)								

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
17.	Coconut	Demonstration of IPM module for Coconut Rugose Spiralling Whitefly		Release of *Encarsia gaudeloupe* @ 100 parasitoids/acre (10 leaf bits/acre) Installation of yellow sticky trap (5 x1.5 feet) smeared with castor oil @ 5/acre Release of Crysoperla zastrowi sillemi eggs @ 500/acre, Spraying of 1% starch solution for sooty mould , Spraying Azadiractin 1 % @ 2ml/lit	TNAU,2022	2nd Year	10	4	20,000	SMS (Plant Protection) & SMS (Horticulture)	-	2
18.	Moringa	Demonstration of IPM in moringa	Affected bud worm, hairy caterpillar and leaf caterpillar incidence is high (35 %). So yield loss (490 q/ha) Due to lack of knowledge in IPM practices.	Spray application of three rounds of azadirachtin 1% @ 2ml/lit (or) *Beauvaria bassiana* @ 4g/lit at fortnightly interval each at	TNAU,2022	New	10	4	20,000	SMS (Plant Protection) & SMS (Horticulture)	-	2

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
				flush formation, flowering and pod forming stage. Setting up of fermented tomato fruit trap @ 25 / ha. Spray Bacillus thuringiensis @ 2 ml/lit. Need based application of insecticides Application of recommended dose of manures and fertilizers								
19.	Cashew	Demonstration of IDM practices in cashew	Due to lack of awareness of management practices Affected die back diseases incidence is high (35 %). So yield loss (600 kg/acre)	Spray 1 % Bordeaux mixture or any copper fungicide like Blitox or Fytolan 0.25 % (3 spray) The pruned trees are to be swabbed with Fytolan 4g/lt or neem oil 5% on the cut ends to avoid dieback (3 spray)	TNAU,2021	New	10	4	20,000	SMS (Plant Protection) & SMS (Horticulture)	-	2
20.	Value	Demonstration	Lack of	Multigrain Mix	TNAU 2021	New	10	10	20000	SMS (Home	1	1

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
	Addition	of Nutrient Dense RTU Multigrain Mixes	knowledge on RTU food and Low cost during peak season	and Banana Health Mix			Unit			Science)		
21.	Nutrition Security - Herbal Garden	Demonstration of Herbal Garden	Lack of knowledge on Immunity Boosting Medicinal Plants	Immunity Boosting Medicinal Plants	Ministry of Ayush, 2021	New	10 Unit	10	10000	SMS (Home Science)	-	10
22.	Value Addition	Demonstration of Immune Boosting Soup using Dried Leaf /Powder	Lack of awareness on locally available Immunity Boosting foods	Green leaf Powder, Soup Soup Cube	TNAU, 2022	New	10 Unit	10	20000	SMS (Home Science)	-	2
23.	Post Harvest Management- Dehydration	Demonstration on Domestic Solar Dryer for drying domestic agricultural/horticultural products	Low market price during peak season. Lack of knowledge ondehydrated products	Dehydrated products -Vathal, Vadagam, Flakes, Chips	TNAU,2023	New	5 Unit	5	27500	SMS (Home Science)	-	2
24.	Poultry	Demonstration of Namakkal Gold Quail	Lack of awareness about economic importance of quail rearing	Namakkal gold quail	TANUVAS,2019	New	10		15000	PA (Animal Science)	-	-
25.	Cattle	Demonstration on	Loss of milk production due	Mastiguard teat	TANUVAS,2018	New	10		12000	PA (Animal	-	-

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
		Mastiguardin milch Cow	to mastitis	spray						Science)		
26	Cattle	Demonstration of TANUVAS 10 cent Multicrop fodder production unit	Less milk production due to lack of awareness about multi fodder production	10cent Multicrop fodder model	TANUVAS,2018	New	10		14000	PA (Animal Science)	-	-
27	Cattle	Demonstration on Tickshieldin milch Cow	Loss of production due to tick infestation	TANUVAS-Tick Shield	TANUVAS,2020	New	10		12000	PA (Animal Science)	-	-

9.2. Details of FLDs (TECHNOLOGY WRITEUP)

FLD No.:	01
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Fibre crop
Crop/ enterprise:	Cotton
Farming situation	Rainfed, Black loamy soil
Prioritized problem:	Farmers getting Low yield (11.7 q/ha) due non availability of improved varieties, lack of knowledge about improved cultivation practices and incidecne of pest and disease leads poor crop management practices.
Title	Demonstration of High density planting in CO 17 Cotton variety
Technology to be demonstrated:	CO 17 Cotton variety – Mean seed cotton yield – 25 q/ha, ginning oput turn 35 % moderately resistant to alternariya leaf flight High density Planting – Row to Row 45 cm, Plant to plant 10 cm Foliar pplication of TNAU Cotton plus at 2 kg /ha at 50 % flowering stage. Soil Application of Micronutrient Mixture at 12 kg /ha.
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2020
Description	CO 17 Cotton variety – Mean seed cotton yield – 25 q/ha, ginning oput turn 35 % moderately resistant to alternariya leaf flight.
Potential yield	27 q/ha
Critical input, quantity and cost	CO 17 Cotton Seed 4 kg/Demo- Rs.800, TNAU Cotton plus 2 kg – 250, Micronutrient Mixture- 5 kg/ demo - Rs. 600
Farmers practice	Private hybrids.
Source of input	TNAU
Photos	
Average farmers yield	11.7 q/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs.30500
Parameters to be studied:	No. of Bolls per plant, Pest incidence (q/h), Yield (q/ha), Gross income (Rs), Net income (Rs) and BCR
Parameters to be reported	No. of Bolls per plant, Pest incidence (q/h), Yield (q/ha), Gross income (Rs), Net income (Rs) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agronomy) SMS (Plant Protection)

FLD No.:	02
Status (New proposal/2nd year /3rd year)	New
Subject	Agronomy
Category:	Millets
Crop/ enterprise:	Cumbu

Farming situation	Rainfed, Red loamy soil
Prioritized problem:	Farmers getting low yield (11.5 q/ha) due to non adoption of improved agricultural practices and non-availability of improved varities.
Title	Demonstration of CO 10 Cumbu variety with ICM practices
Technology to be demonstrated:	CO 10 Cumbu variety and soil application of MN mixture ar 12 kg /ha.
Hybrid or Variety:	Variety
Source of Technology:	TNAU
Description	CO 10 duration: 85-90 days, Yield – 29.23 q/ha, resistant to downy mildew, high protein content (12.7 %), compact ear head and bold seed. Basal application of MN mixture at 12 kg/ ha
Potential yield	30 q/ha
Critical input, quantity and cost	CO 10 CumbuSeeds 4 kg Rs. 200, MN Mixture 5 kg Rs.800
Farmers practice	Local variety with yield potential of 11.5 q/ha.
Source of input	TNAU
Photos	
Average farmers yield	12.5 q/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	10400
Parameters to be studied:	Plant height (cm), No. of Productive tillers/plant, ear head length (cm), Grain yield (q/ha), fodder yield (q/ha), Gross income (Rs/ha), Net income (Rs/ha) and BCR
Parameters to be reported	Plant height (cm), No. of Productive tillers/plant, ear head length (cm), Grain yield (q/ha), fodder yield (q/ha), Gross income (Rs/ha), Net income (Rs/ha) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK main
Team members	SMS Agronomy

FLD No.:	03
Status (New proposal/2nd year /3rd year)	New
Subject	Agronomy
Category:	Millets
Crop/ enterprise:	Sorghum
Farming situation	Rainfed, red loamy soil
Prioritized problem:	Low yield (13.5 q/ha) due to non availability of improved variety and poor crop management practices
Title	Demonstration of Sorghum CO 32 variety with ICM
Technology to be demonstrated:	K 13 Sorghum variety with soil Application of MN Mixture
Hybrid or Variety:	Variety
Source of Technology:	TNAU

Description	K 13- Duration 95-100 days, Gran yield : 25.75q/ha, stover yield : 11.4 t/ha, dual purposesuited for gran and fodder, resistant to shoot fly, Stem borer, Downy mildew, grain mould and rust. Basal application of MN mixture at 12 kg/ha
Potential yield	28 q/ha
Critical input, quantity and cost	Sorghum Seeds 6 kg Rs.1080, MN Mixture 5 kg Rs.800
Farmers practice	Local variety with yield potential of 12.5 q/ha.
Source of input	TNAU
Photos	
Average farmers yield	13 q/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	22800
Parameters to be studied:	Plant height (cm), Grain yield (q/ha), fodder yield (q/ha), Gross income (Rs/ha), Net income (Rs/ha) and BCR
Parameters to be reported	Grain yield (q/ha), fodder yield (q/ha), Gross income (Rs/ha), Net income (Rs/ha) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK main

FLD No.:	04
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Minor millets
Crop/ enterprise:	Tenai
Farming situation	Rainfed , red loamy soil
Prioritized problem:	Lack of availability of improved Tenai variety and cultivation of local variety with poor crop management practices
Title	Demonstration of ATL 1 Tenai variety
Technology to be demonstrated:	Demonstration of ATL 1 Tenai variety with MN mixture application
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2022
Description	ATL 1 – Duration, 80-85 days. Grain yield 2115 kg and straw yield 2785. it is a drought tolerant. The plants has 5-7 productive tillers and non- shattering grains. The grain are bold and attractive, brownish yellow in colour. The grains are nutritious with

	preferred grain qualities for cooking and value addition. Application of Micronutrient mixture at the rate of 12 kg /ha. .
Potential yield	23 q/ha
Critical input, quantity and cost	ATL 1 Seeds 5 kg Rs. 350, MN mixture 3 kg –Rs.500
Farmers practice	Local variety
Source of input	TNAU
Photos	
Average farmers yield	11.5 q/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	12500
Parameters to be studied:	No.of Productive tillers, grain yield (q/ha), straw yield (q/ha), Gross income (Rs.ha), Net income (Rs.ha) and BCR
Parameters to be reported	No.of Productive tillers, grain yield (q/ha), straw yield (q/ha), Gross income (Rs.ha), Net income (Rs.ha) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agronomy)

FLD No.:	05
Status (New proposal/2nd year /3rd year)	New
Subject	Agronomy
Category:	Oilseeds
Crop/ enterprise:	Groundnut
Farming situation	Irrigated, red loamy soil
Prioritized problem:	Low yield (12.5q/ha) due to poor crop management and lack of availability of improved varieties
Title	Demonstration of TMV 14 Groundnut variety with ICM practices
Technology to be demonstrated:	Demonstration of TMV 14 Groundnut variety with TNAU Groundnut rich application
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2018
Description	Groundnut TMV 14. Shorter duration variety with 95-100 days. The average yield 2230 kg/ha. The oil content is 48%. Complete rust resistant variety suitable for Kharif season. application of TNAU Groundnut rich at 2 kg/acre

Potential yield	29 q /ha
Critical input, quantity and cost	TMV 14 seeds – 40 kg –Rs.4800 , Groundnut rich 2 kg 200
Farmers practice	TMV 7
Source of input	TNAU
Photos	
Average farmers yield	13.2 q/ha
Season	Rabi 2023
No. of Demos (replications)	10
Total cost for the Demo	49500
Parameters to be studied:	No.of Pods per plant, yield (q/ha), Gross Income (Rs/ha)and Net Imcome (Rs/ha) and BCR
Parameters to be reported	No.of Pods per plant, yield (q/ha), Gross Income (Rs/ha)and Net Imcome (Rs/ha) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agronomy)

FLD No.:	06
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Agronomy
Category:	Cereals
Crop/ enterprise:	Paddy
Farming situation	Irrigated, black loamy soil
Prioritized problem:	Paddy is the major crop in theni district. The crop cultivated 1400 ha in the district Low yield (47.5 q/ha) due to continues cultivation of same variety and incidence of Yellow Stem Borer .
Title	Demonstration of ADT 58 Paddy variety with ICM
Technology to be demonstrated:	Demonstration of ADT 58 paddy variety with yellow stem borer management practices
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2023
Description	Paddy- ADT 5- Duration- 125 days, yield : 63.76q/ha, medium slender grain, 72 % Milling, head rice recovery- 65 %, suitable for cooking and idli making, Moderately tolerent to Blast and stem borer, moderately resisitant to blast, sheath blight, sheath rot. Installation of pheramone trap @ 5 nos./acre
Potential yield	63 q/ha
Critical input, quantity and cost	ADT 58 seeds 8 kg Rs.400, Azospirillum 1 lit Rs 500, Pheromone trap , 5 Nos .Rs 500
Farmers practice	Sowbakya private variety

Source of input	TNAU
Photos	
Average farmers yield	48.2 q/ha
Season	Kharif 2022
No. of Demos (replications)	10
Total cost for the Demo	18000
Parameters to be studied:	No.of Productive tillers, Yellow Stem Borer Incidence (%), Yield , Gross income (Rs), Net income (Rs) and BCR
Parameters to be reported	No.of Productive tillers, Yellow Stem Borer Incidence (%), Yield , Gross income (Rs), Net income (Rs) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Agronomy) SMS (Plant Protection)

FLD No.:	07
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Fruit crops
Crop/ enterprise:	Grapes
Farming situation	Irrigated, Red sandy loam
Prioritized problem:	Uneven uniform colour improvement in Grape fruits, low market value and low shelf life
Title	Demonstration of Colour improvement practices in Grapes *Muscat Hamburg*.
Technology to be demonstrated:	Pre Foliar spray of potassium di hydrogen phosphate @ 0.50% + ABA @ 150 ppm.
Hybrid or Variety:	Variety
Source of Technology:	TNAU SWC 2023
Description	Pre Foliar spray of potassium di hydrogen phosphate @ 0.50% + ABA @ 150 ppm increased the fruit yield (16.85 kg vine-1) with the highest total anthocyanin content (49.26 mg 100g-1).
Potential yield	30-33 t/ha
Critical input, quantity and cost	Potassium di hydrogen phosphate, ABA and Field board.
Farmers practice	Application of GA3
Source of input	TNAU SWC 2023

Photos	
Average farmers yield	20-25 t/ha
Season	Kharif
No. of Demos (replications)	10
Total cost for the Demo	10000
Parameters to be studied:	Bunch weight (g), Number of bunches per vine, Yield per vine (kg/vine) and Yield (t/ha), BCR
Parameters to be reported	Yield (t/ha), Gross income, Gross cost and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	SMS (Horticulture) and SMS (Agronomy)

FLD No.:	08
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Flower crops
Crop/ enterprise:	Jasmine
Farming situation	Irrigated, Red sandy loam
Prioritized problem:	Lack of knowledge about off-season jasmine production, low yield and more pest and disease.
Title	Demonstration of Off season production of Jasmine in Theni District.
Technology to be demonstrated:	Application of Mepiquat chloride (500 ppm) 15 days after pruning induced off season flowering.
Hybrid or Variety:	Variety
Source of Technology:	FRS, Thovalai, TNAU-2022
Description	Pruning during second week of August and application of Mepiquat chloride (500 ppm) 15 days after pruning induced off season flowering with a per plant yield of 273.28 g/ plant during October – January (1.57 t / ha). This helped in realizing high profit for the farmers.
Potential yield	1.57 t/ha
Critical input, quantity and cost	Mepiquat chloride and field board
Farmers practice	Local variety, Non sprayed
Source of input	KVK

Photos	
Average farmers yield	1.20 t/ha
Season	Rabi
No. of Demos (replications)	10
Total cost for the Demo	5000
Parameters to be studied:	Days for sprouting (days), Sprouts per plant, Days for emergence of first flower bud (days), Weight of 100 flower buds (g), Flower buds per plant, Flower yield per plant (g), Flower yield per ha (kg) and BCR
Parameters to be reported	Flower yield per ha (kg), Gross income, Gross cost and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	SMS (Horticulture), SMS (Soil Science)

FLD No.:	9
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Horticulture
Category:	Vegetable crops
Crop/ enterprise:	Tomato
Farming situation	Irrigated, Red sandy loam
Prioritized problem:	Low yield, Poor quality of fruits, Incidence of Pest and Diseases (Leaf Curl, Blossom End Rot, Bacterial wilt, Early blight).
Title	Demonstration of BIOGROW liquid formulation in Tomato for higher productivity.
Technology to be demonstrated:	BIOGROW liquid formulation
Hybrid or Variety:	Hybrid
Source of Technology:	ICAR- National Bureau of Agriculturally Important Microorganisms, Mau, UP, India (2020)
Description	BIOGROW has been developed using consortium of different bacterial species “viz., Bacillus sp. BC39, Bacillus sp. RC25, Pseudomonas sp. K30 and Pseudomonas sp. K31,” endowed with phosphorus solubilization, IAA and siderophore production attributes. Application of BIOGROW increased the yield of tomato by 25- 30%. Moreover, there was a significant improvement in nutritional quality of the produce as evident from enhanced content of lycopene and β-carotene.
Potential yield	65t/ha
Critical input, quantity and cost	BIOGROW and Field board
Farmers practice	Private hybrid -Sivam, do not spray BIOGROW
Source of input	ICAR- National Bureau of Agriculturally Important Microorganisms, Mau, UP
Photos	

	
Average farmers yield	45t/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	5000
Parameters to be studied:	Seedling Establishment (%), Number of fruits/plants, Fruit weight (g), Yield (t/ha), BCR
Parameters to be reported	Yield (t/ha), Gross income, Gross cost and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	SMS (Horticulture), SMS (Soil Science)

FLD No.:	10
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Category:	Oil seeds
Crop/ enterprise:	Groundnut
Farming situation	Rainfed red sandy loam
Prioritized problem:	Groundnut is cultivated in about 200 ha in the district under rainfed. Farmers are getting low yield (14.5 q/ha) due to micronutrient deficiency and non-application of growth promotors/boosters.
Title	Demonstration of Nut Magic in Groundnut for higher productivity
Technology to be demonstrated:	Nut Magic
Hybrid or Variety:	Variety
Source of Technology:	Directorate of Groundnut Research, Junagadh (2020)
Description	A formulation of consortium of PGPR (NutMagic) can be applied after dilution through irrigation water or through FYM after multiplication in FYM or through drip or as seed treatment Improvement in nutrient mobilization and uptake like P, K, N, Fe, Zn, Mn etc. Enhancement in biological nitrogen fixation by 25-30%. Compatible with seed treating chemicals like Bavistin (Carbendazim)/Thiram. Yield advantage can be upto 20% and formulation has shelf life >1 yr at room temperature. Application of NutMagic can save 25-30% of nitrogenous, 30-40% of phosphatic and 25% of potassic fertilizers
Potential yield	17.4 q/ha
Critical input, quantity and cost	Nut Magic, Field board; 5 kg, Rs.1500
Farmers practice	Non application of any growth promotors/boosters

Source of input	KVK
Photos	 
Average farmers yield	16 q/ha
Season	Rabi 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs.15000
Parameters to be studied:	Pod and haulm yield, pest and diseases, 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	SMS (Soil Science) and (SMS Agronomy)

FLD No.:	11
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Category:	Cereals
Crop/ enterprise:	Paddy
Farming situation	Mullaiperiyar river basin irrigated upland red sandy loam
Prioritized problem:	Paddy is cultivated in about 2500 ha in the district under irrigated condition. Farmers often use excessive dose of nitrogenous fertilizer, this leads to high cost of fertilizer low fertilizer use efficiency and other environmental problems.
Title	Demonstration of IFFCO Nano Urea in Paddy cultivation
Technology to be demonstrated:	IFFCO Nano Urea
Hybrid or Variety:	Co 52
Source of Technology:	IFFCO, 2021
Description	Foliar spraying with IFFCO NANO urea (5 ml of Nano urea/Litre). N, P & K fertilizer – Basal application based on soil test, Top dressing of K fertilizers. N fertilizers as nano urea foliar sprays –1st spray at active tillering stage or 20-25 days after Transplanting; 2nd spray 20-25 days after 1st spray or before flowering in the crop
Potential yield	56.8 q/ha
Critical input, quantity and cost	IFFCO NANO Urea, 1lit, Rs.800
Farmers practice	Soil application of DAP @ 250 kg/ha, Urea and Potash each 125 kg/ha
Source of input	KVK

Photos	 
Average farmers yield	48.2 q/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs.8000
Parameters to be studied:	Productive tillers / plant, Grain yield, 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	SMS (Soil Science) and (SMS Agronomy)

FLD No.:	12
Status (New proposal/2nd year /3rd year)	New proposal
Subject	Soil Science
Category:	Vegetables
Crop/ enterprise:	Tomato
Farming situation	Borewell irrigated red sandy loam
Prioritized problem:	Tomato is cultivated in about 3500 ha in the district under irrigated condition. Farmers are getting low yield due to high flower drop. Lack awareness about crop boosters.
Title	Demonstration of TNAU Rhizoboost for enhancement of yield in Tomato
Technology to be demonstrated:	TNAU Rhizoboost - Foliar spray 1 % at the active growth stage
Hybrid or Variety:	Variety
Source of Technology:	TNAU SWC, 2022
Description	Plant growth booster contains probiotic microbial, consortium, mineral phosphate and hydrogel embedded in nano - bio - polymers. It creates effective rhizosphere and aids in enhanced growth, nutrition and disease resistance. Foliar spray 1 % at the active growth stage. Benefits • Stimulated microbial activity in the rhizosphere • Aids in root proliferation • Enhanced plant growth and yield
Potential yield	28.6 t/ha
Critical input, quantity and cost	TNAU Rhizoboost, 1lit, Rs.800

Farmers practice	Non application of crop boosters
Source of input	KVK
Photos	 
Average farmers yield	24.2 q/ha
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs.8000
Parameters to be studied:	Plant height, No. of branches per plant, No. of fruits / plant, fruit yield per plant (kg), Yield (kg/ha), Gross cost, gross and net income, BCR
Parameters to be reported	Fruit yield per plant (kg), Yield (kg/ha), gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Soil Science) and (SMS Horticulture)

FLD No.:	13
Status (New proposal/2nd year /3rdyear)	New proposal
Subject	Soil Science
Category:	Sugarcrops
Crop/ enterprise:	Sugarcane
Farming situation	Borewell irrigated Black soil
Prioritized problem:	Sugarcane is cultivated in about 2800 ha in the district under irrigated. Farmers getting low yield (96.8t/ha) due to lack of awareness about crop boosters.
Title	Demonstration of TNAU sugarcane booster for increasing productivity in Sugarcane
Technology to be demonstrated:	Foliar spray of TNAU sugarcane booster @ 1,1.5, and 2 kg / acre at 45, 60 and 75 days after planting respectively in 200 litres.
Hybrid or Variety:	Variety
Source of Technology:	TNAU, 2014
Description	A booster with nutrients and growth regulators for Sugarcane. Foliar spray of TNAU sugarcane booster @ 1,1.5, and 2 kg / acre at 45, 60 and 75 days after planting respectively in 200 litres. Benefits: Enhances cane growth and weight; Improves internodal length; Improves cane yield up to 20 per cent; Improves sugar content; Increases drought tolerance
Potential yield	118 t/ha

Critical input, quantity and cost	TNAU sugarcane booster, Field board; 5 kg, Rs.1200
Farmers practice	Non application of crop boosters
Source of input	TNAU
Photos	
Average farmers yield	96.5 q/ha
Season	Kharif 2024
No. of Demos (replications)	10
Total cost for the Demo	Rs.12000
Parameters to be studied:	Plant height, no. of internodes, cane yield, Gross cost, gross and net income, BCR
Parameters to be reported	Cane yield, gross cost, gross and net income, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	SMS (Soil Science) and (SMS Agronomy)

FLD No.	14
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Category	Horticulture
Crop / Enterprise	Mango
Farming situation	Irrigated, Red soil
Prioritized problem	Affected leaf Webber and hoppers incidence is high (45%). So low yield (49q/ha) Due to lack of knowledge inIPM practices.
Title of the FLDs	Demonstration for IPDM practices in Mango
Technology to be demonstrated	Apply *Metarhizium anisopliae* or *Beauveria bronchitii* @ 108 cfu /ml on tree trunk once during off season and twice at 7 days interval during flowering season. Spraying of *B.subtilis* immediately after flowering @ 5 g/ l five times at 21 days interval. Setting up of Fruit fly trap Arka Dorsolure -F and Arka Bactro+ @10 Nos/ac Neem oil @ 3% ml/lit of water
Hybrid or Variety	Variety
Source of Technology	TNAU, 2020 & IIHR 2019
Description (short)	Apply Metarhizium anisopliae or Beauveria bronchitii @ 108 cfu /ml on tree trunk once during off season and twice at 7 days interval during flowering season. Spraying of *B.subtilis* immediately after flowering @ 5 g/ l five times at 21 days interval.
Potential yield/income	98 q/ha
Critical Inputs and cost	*Metarhizium anisopliae* or *Beauveria bronchitii* @ 108 cfu /ml on tree trunk once during off season and twice at 7 days interval

	during flowering season. Spraying of *B.subtilis* immediately after flowering @ 5 g/ l five times at 21 days interval. 25,000
Source of Inputs	TNAU,2020
Photos	
Average farmers yield	857.5 q/ha
Season	Kharif
No. of Demos	10
Parameters to be studied	No. of infected leaves and friuts ,Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves and friuts ,Yield, Gross income, Net income, B:C ratio
Source of funds	KVK Main
Team members	SMS (Plant Protection) & (Horticulture)

FLD No.	15
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Category	Horticulture
Crop / Enterprise	Banana
Farming situation	Irrigated, Red soil
Prioritized problem	Affected sigatoka leaf spot diseases (30 %). So low yield (367.5 q/ha). Due to lack of knowledge inIDM practices.
Title of the FLDs	Demonstration of Bio-Consortia for sigatoka leaf spot Management in banana
Technology to be demonstrated	Spraying of Bio-Consortia @50g per lit from 4th month after planting at 20 days interval (3sprays)
Hybrid or Variety	Variety
Source of Technology	ICAR-NRCB 2022
Description (short)	Bio-Consortia for sigatoka leaf spot Management in banana
Potential yield/income	980q/ha
Critical Inputs and cost	Spraying of Bio-Consortia @50g per lit from 4th month after planting at 20 days interval (3sprays), 20,000
Source of Inputs	TNAU, 2020

Photos	
Average farmers yield	857.5 q/ha
Season	Kharif
No. of Demos	10
Parameters to be studied	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Source of funds	KVK Main
Team members	SMS (Plant Protection) & (Horticulture)

FLD No.	16
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Category	Agriculture
Crop / Enterprise	Maize
Farming situation	Irrigated, Red soil
Prioritized problem	Affected Fall armyworm incidence is high (40%) So Yield loss (4.90 q/ha). Due to lack of knowledge inIPM practices
Title of the FLDs	Demonstration of refined IPM Module for Maize Fall Armyworm
Technology to be demonstrated	Application of neem cake @ 250 kg/ha at the time of last ploughing to increase the plant and soil health Seed treatment with cyantraniliprole 19.8% +thiamethoxam19.8% FS @ 4 ml/kg seed. Border cropping with cowpea, gingelly/ redgram or sunflower in garden land conditions and fodder sorghum in dry land conditions @ three rows of selected crop Monitoring of FAW adults using pheromone traps @ 12/ha Window based application of insecticides Early whorl stage (15 – 20 DAE): Chlorantraniliprole 18.5 SC @ 0.4 ml/ lit (or) flubendiamide 480 SC @ 0.5 ml/lit at early stage (15 - 20 DAE) followed by azadirachtin 1500 ppm @ 5 ml/lit on need basis Late whorl stages (35-40 DAE): Emamectin benzoate 5 SG @ 0.4 g/lit or novaluron 10 EC @ 1.5 ml/lit or spinetoram 11.70 SC @ 0.5 ml/lit Tasseling and cob formation stage (only if required): Spinetoram 11.70 SC @ 0.5 ml/lit (or) emamectin benzoate 5 SG @ 0.4 g/lit (which was not sprayed at late whorl stage)
Hybrid or Variety	Hybrid
Source of Technology	TNAU, 2022
Description (short)	Apply neem cake @ 250 kg/ha. Thiamethoxam 30 FS or Beauveria bassiana @ 10 g/ kg. Use solar light trap @ one/ha and sex pheromone traps @ 50/ha
Potential yield/income	49 q/ha
Critical Inputs and cost	neem cake @ 250 kg/ha. Thiamethoxam 30 FS or Beauveria bassiana @ 10 g/ kg. Use solar light trap @ one/ha and sex pheromone traps @ 50/ha –Rs. 20,000

Source of Inputs	TNAU, 2020
Photos	
Average farmers yield	49 q/ha
Season	Kharif
No. of Demos	10
Parameters to be studied	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Source of funds	KVK Main
Team members	SMS (Plant Protection) & (Agronomy)

FLD No.	17
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Category	Agriculture
Crop / Enterprise	Coconut
Farming situation	Irrigated, Red soil
Prioritized problem	
Title of the FLDs	Demonstration of IPM module for Coconut Rugose Spiralling Whitefly
Technology to be demonstrated	Release of *Encarsia gaudeloupe* @ 100 parasitoids/acre (10 leaf bits/acre) Installation of yellow sticky trap (5 x1.5 feet) smeared with castor oil @ 5/acre Release of Crysoperla zastrowi sillemi eggs @ 500/acre, Spraying of 1% starch solution for sooty mould , Spraying Azadiractin 1 % @ 2ml/lit
Hybrid or Variety	Variety
Source of Technology	TNAU, 2020
Description (short)	Release of *Encarsia gaudeloupe* @ 100 parasitoids/acre (10 leaf bits/acre) Installation of yellow sticky trap (5 x1.5 feet) smeared with castor oil @ 5/acre, Spraying of 1% starch solution for sooty mould , Spraying Azadiractin 1 % @ 2ml/lit
Potential yield/income	49 q/ha
Critical Inputs and cost	Release of *Encarsia gaudeloupe* @ 100 parasitoids/acre (10 leaf bits/acre) Installation of yellow sticky trap (5 x1.5 feet) smeared with castor oil @ 5/acre, Spraying of 1% starch solution for sooty mould , Spraying

	Azadiractin 1 % @ 2ml/lit 20,000
Source of Inputs	TNAU, 2022
Photos	
Average farmers yield	45 q/ha
Season	Kharif
No. of Demos	10
Parameters to be studied	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Source of funds	KVK Main
Team members	SMS (Plant Protection) & (Agronomy)

FLD No.	18
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Category	Agriculture
Crop / Enterprise	Moringa
Farming situation	Irrigated, Red soil
Prioritized problem	Affected bud worm, hairy caterpillar and leaf caterpillar incidence is high (35 %). So yield loss (490 q/ha) Due to lack of knowledge in IPM practices.
Title of the FLDs	Demonstration of IPM in moringa
Technology to be demonstrated	Spray application of three rounds of azadirachtin 1% @ 2ml/lit (or) *Beauvaria bassiana* @ 4g/lit at fortnightly interval each at flush formation, flowering and pod forming stage. Setting up of fermented tomato fruit trap @ 25 / ha. Spray Bacillus thuringiensis @ 2 ml/lit. Need based application of insecticides Application of recommended dose of manures and fertilizers.
Hybrid or Variety	Variety
Source of Technology	TNAU, 2021
Description (short)	Spray application of three rounds of azadirachtin 1% @ 2ml/lit (or) *Beauvaria bassiana* @ 4g/lit at fortnightly interval each at flush formation, flowering and pod forming stage. Setting up of fermented tomato fruit trap @ 25 / ha. Spray Bacillus thuringiensis @ 2 ml/lit.
Potential yield/income	612.5 q/ha
Critical Inputs and cost	Spray application of three rounds of azadirachtin 1% @ 2ml/lit (or) *Beauvaria bassiana* @ 4g/lit at fortnightly

	interval each at flush formation, flowering and pod forming stage. Setting up of fermented tomato fruit trap @ 25 / ha. Spray Bacillus thuringiensis @ 2 ml/lit. 20,000
Source of Inputs	TNAU, 2021
Photos	
Average farmers yield	490 q/ha
Season	Kharif
No. of Demos	10
Parameters to be studied	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Source of funds	KVK Main
Team members	SMS (Plant Protection) & (Agronomy)

FLD No.	19
Status (New proposal /2nd year /3rd year)	New proposal
Subject	Plant Protection
Category	Horticulture
Crop / Enterprise	Cashew
Farming situation	Irrigated, Red soil
Prioritized problem	Affected die back diseases incidence is high (35 %). So yield loss (14.7 q/ha) Due to lack of knowledge in IDM practices
Title of the FLDs	Demonstration of IDM practices in cashew
Technology to be demonstrated	Spray 1 % Bordeaux mixture or any copper fungicide like Blitox or Fytolan 0.25 % (3 spray) The pruned trees are to be swabbed with Fytolan 4g/lt or neem oil 5% on the cut ends to avoid dieback (3 spray)
Hybrid or Variety	Variety
Source of Technology	TNAU, 2020
Description (short)	Spray 1 % Bordeaux mixture or any copper fungicide like Blitox or Fytolan 0.25 % (3 spray)
Potential yield/income	55 q/ha
Critical Inputs and cost	Spray 1 % Bordeaux mixture or any copper fungicide like Blitox or Fytolan 0.25 % (3 spray) 20,000
Source of Inputs	TNAU, 2021

Photos	
Average farmers yield	49 q/ha
Season	Kharif
No. of Demos	10
Parameters to be studied	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Parameters to be reported	No. of infected leaves, Yield, Gross income, Net income, B:C ratio
Source of funds	KVK Main
Team members	SMS (Plant Protection) & (Agronomy)

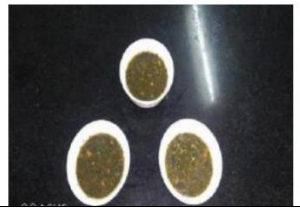
FLD No.:	20
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Home Science
Category:	Post Harvest Management
Crop/ enterprise:	Value Addition
Farming situation	-
Prioritized problem:	Lack of knowledge on RTU food and Low cost during peak season
Title	Demonstration of Nutrient Dense RTU Multigrain Mixes
Technology to be demonstrated:	Nutrient Dense RTU Multigrain Mix and Banana Health Mix
Hybrid or Variety:	-
Source of Technology:	TNAU 2021
Description	Nutrient Dense Ready to use (Rtu) Multigrain Mix- Designed for undernourished individuals and farm women • Brown rice flour (25 g), Finger millet flour (20 g), Whole wheat flour (20 g), Green gram dhal flour (10 g), Roasted groundnut flour (10 g), Roasted sesame flour (10 g), Drumstick leaves powder (2.5 g) and Carrot powder (2.5 g). • Functional food with proven health benefits to address malnutrition. • Shelf life of six months at ambient conditions. Banana Health Mix- • Banana health mix is prepared using banana flour (40%) from Chakkai variety, sprouted bajra flour (20%), sprouted green gram flour / sprouted bengal gram (25 %) flour and cashew nut (15%). • Used as a Hypertonic sports drink due to its high carbohydrate content.

Potential yield	-
Critical input, quantity and cost	Raw Materials, Packaging Materials
Farmers practice	-
Source of input	FPOs, Grocery Markets
Photos	 
Average farmers yield	-
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs.20,000/-
Parameters to be studied:	Organoleptic Evaluation, Shelf life, BCR
Parameters to be reported	Organoleptic Evaluation, Shelf life, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK Main
Team members	(SMS Home Science)

FLD No.:	21
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Home Science
Category	Nutrition Security
Crop/ enterprise	Herbal Garden
Farming situation	-
Prioritized problem	Lack of knowledge on Immunity Boosting Medicinal Plants
Title	Demonstration of Herbal Garden
Technology to be demonstrated	Demonstration of Immune Boosting Medicinal Plants
Hybrid or Variety	-
Source of Technology	Ministry of Ayush, 2021
Description	Establishment of Herbal Garden to popularize the Immune Boosting Medicinal plants
Potential yield	-

Critical input, quantity and cost	Medicinal Plants, 24 number, Rs.1000/- Thiruneetru pachilai, Lemon Grass,Aswagandha, Siriyanangai, Vatha Narayanan, Kodampuli,Nellikai, Vasambu, Vetrilai, Thazhuthazhai, Adhatoda, Chitrarathai,Insulin plant,Sirukurinjan, Manathakkali, Thavasikeerai (Multi Vitamin Greens), Mudakkathan, Brahmi, Stevia, Pirandai, Semparthuti, Sankuppoo, Tulsi
Farmers practice	Aloevera and Neem
Source of input	TNAU, HC&RI Nursery, Periyakulam, Theni
Photos	  
Average farmers yield	-
Season	Kharif 2023
No. of Demos (replications)	10
Total cost for the Demo	Rs.10000/-
Parameters to be studied	Yield (kg/cent), Income, BCR, KAP
Parameters to be reported	Yield (kg/cent), Income, BCR, KAP
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	(SMS Home Science)

FLD No.	22
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Home Science
Category	Post Harvest Management
Crop/ enterprise	Moringa
Farming situation	-
Prioritized problem	Lack of awareness on locally available Immunity Boosting foods
Title	Demonstration of Immune Boosting Soup using Dried Leaf /Powder
Technology to be demonstrated	Green leaf Powder, Soup and Soup Cube
Hybrid or Variety	-
Source of Technology	TNAU, 2022
Description	Instant Soup cubes helps in bridging the gap in deficiency of nutrients among all population. ♣ Dehydrated moringa/ chekkurumani powder (25g), Potato starch (25g), Onion powder(5g), Tomato powder(3g), Carrot powder(13g), Beans powder(12g), Pepper powder(7g), Salt(4g), Caramel powder(2g), Butter (2g) and Amla (2g).

Potential yield	Developed soup cubes are rich in immune boosting nutrients like Vitamin C (2571.42mg, 342.85mg), β-Carotene (14.86mg, 16.203mg) for moringa and chekurumani based soups respectively.
Critical input, quantity and cost	Raw Materials, Basket type centrifuge (1), Packaging Materials
Farmers practice	No Value Addition
Source of input	Farmers and Super Market
Photos	  
Average farmers yield	-
Season	Rabi 2023-24
No. of Demos (replications)	10
Total cost for the Demo	Rs.20000/-
Parameters to be studied	Drying Time, Dehydration Ratio, Sensory Evaluation, Shelf life, BCR
Parameters to be reported	Drying Time, Dehydration Ratio, Sensory Evaluation, Shelf life, BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	(SMS Home Science)

FLD No.:	23
Status (New proposal/2nd year /3rd year)	New Proposal
Subject	Home Science
Category:	Post Harvest Management-Value Addition
Crop/ enterprise:	Horticultural Produces
Farming situation	-
Prioritized problem:	High wastage during peak harvest time and Lack of knowledge on dehydrated products
Title	Demonstration on Domestic Solar Dryer for drying of horticultural produces
Technology to be demonstrated:	Dehydration of Horticultural Products – Tomato, Onion, Banana, Mango, Moringa, Greens
Hybrid or Variety:	-
Source of Technology:	TNAU,2023
Description	Solar dryer generates higher temperature, reduces the drying time and protects agricultural produce from insects, pests, dust and rain. Besides, it takes up lesser space as it can be placed on the terrace or balcony. The maximum temperature inside the dryer was observed to be in the range of 50 oC. The capacity of the dryer is 1-2 kg

Potential yield	-
Critical input, quantity and cost	Domestic Solar Dryer (5), Raw Materials, Packaging material
Farmers practice	Sun drying
Source of input	Super Markets, Equipment Industries, Coimbatore,
Photos	
Average farmers yield	-
Season	Rabi 2023-24
No. of Demos (replications)	5
Total cost for the Demo	Rs.27,500/-
Parameters to be studied:	Drying Time, Dehydration Ratio, Sensory Evaluation, Shelf life and BCR
Parameters to be reported	Drying Time, Dehydration Ratio, Sensory Evaluation, Shelf life and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	SMS (Home Science)

FLD No	24
Status (New proposal/2nd year /3rd year)	New
Subject	Animal Science
Category:	Poultry
Crop/ enterprise:	Quail
Farming situation	-
Prioritized problem:	Lack of awareness about quail rearing
Title	Demonstration of Namakkal Gold Quail
Technology to be demonstrated:	Demonstration of Namakkal Gold Quail
Hybrid or Variety:	Namakkal Gold Quail
Source of Technology:	TANUVAS,2019
Description	• Egg production (Hen-housed from 7-57 weeks)-257 nos. • Highest egg production (%)-99.2.

	• Average egg weight-13.2g • Average livability during laying period-95%. • Average feed consumption during laying period-33.3g
Potential yield	-
Critical input, quantity and cost	Day old Chick, Feed, Field board
Farmers practice	Japanese quail
Source of input	TANUVAS
Photos	
Average farmers yield	
Season	-
No. of Demos (replications)	10
Total cost for the Demo	15000
Parameters to be studied:	Egg production, egg laying period, weight gain & BCR
Parameters to be reported	Egg production, egg laying period, weight gain & BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK- Main
Team members	PA (AS)
FLD No.:	25
Status (New proposal/2nd year /3rd year)	New
Subject	Animal Science
Category:	Disease management
Crop/ enterprise:	Cattle
Farming situation	-
Prioritized problem:	Decrease in quality and quantity of milk, economic loss
Title	Demonstration on Masti guard in milch Cow
Technology to be demonstrated:	Demonstration on Masti guard
Hybrid or Variety:	-
Source of Technology:	TANUVAS,2018
Description	Prevention is the best treatment for bovine mastitis. Since poorfarm floor hygiene and udder hygiene lead to sub-clinical and clinical bovine mastitis. Teat Protect spray formulation was proven to prevent mastitis in cattle and buffaloes and prevents

	economic loss to the dairy farmers. The spray provides a protective coating of teat and udder thereby preventing entry of pathogens through the teat opening.
Potential yield	-
Critical input, quantity and cost	Masti guard teat protect spray, field board
Farmers practice	-
Source of input	TANUVAS
Photos	
Average farmers yield	-
Season	-
No. of Demos (replications)	10
Total cost for the Demo	12000
Parameters to be studied:	Incidence of Mastitis, Milk yield (%), BCR
Parameters to be reported	Incidence of Mastitis, Milk yield (%), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	PA(AS)

FLD No.:	26
Status (New proposal/2nd year /3rd year)	2nd year
Subject	Animal Science
Category:	Fodder production
Crop/ enterprise:	-
Farming situation	-
Prioritized problem:	Lack of cultivation of leguminous green fodder. Lack of scientific feeding of green fodder in dairy animal which leads to low milk yield and milk fat & SNF.
Title	Demonstration on mixed fodder (10 cent model) in perambalur district
Technology to be demonstrated:	Demonstration on mixed fodder (10 cent model) production model to enhance milk production in cross breed dairy cattle.
Hybrid or Variety:	
Source of Technology:	TANUVAS, 2015

Description	• 10 cent model of mixed fodder
	  • 4 cent of high yielding multi cut grass variety (CO 5)
	  • 3 cent of high yielding multi cut desmanthus
	  • 3 cent of high yielding multi cut COFS 29 or single cut fodder cowpea
	• Agathi and Subabul as Border crops

Potential yield	
Critical input, quantity and cost	CO 5 setts – 4 cents, Desmanthus seeds – 3 cents, COFS 29 seeds – 3 cents, Subabul seeds, Agathi seeds and Field board
Farmers practice	• Feeding of mainly paddy straw and single cut fodder • Minimal area under multicut fodder cultivation
Source of input	TANUVAS
Photos	
Average farmers yield	-
Season	-
No. of Demos	10

(replications)	
Total cost for the Demo	14,000
Parameters to be studied:	Fodder yield , Milk yield (in lit) and BCR
Parameters to be reported	Fodder yield , Milk yield (in lit) and BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK- Main

FLD No.:	27
Status (New proposal/2nd year /3rd year)	New
Subject	Animal Science
Category:	Disease management
Crop/ enterprise:	Cattle
Farming situation	-
Prioritized problem:	Decrease in production due to tick infestation, economic loss
Title	Demonstration on Tickshield in milch Cow
Technology to be demonstrated:	Demonstration on Tickshield
Hybrid or Variety:	-
Source of Technology:	TANUVAS,2020
Description	Control of Tick infestation. Since poor farm hygiene management leads to affect the animal productivity . Tickshield formulation was proven to control the tick infestation in cattle and buffaloes and prevents economic loss to the dairy farmers.
Potential yield	-
Critical input, quantity and cost	Tickshield, field board
Farmers practice	-
Source of input	TANUVAS
Photos	
Average farmers yield	-
Season	-
No. of Demos (replications)	10

Total cost for the Demo	12000
Parameters to be studied:	Incidence of Tickinfestation , Milk yield (%), BCR
Parameters to be reported	Incidence of Tickinfestation, Milk yield (%), BCR
Source of funding (KVK-Main/TSP/ /SC SP/ Project/Others (specify)	KVK-Main
Team members	PA(AS)

9.3. National Food Security Mission (NFSM)

9.3.1. Cluster Frontline Demonstrations on Pulses 2023-24

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	Low yield (7.5q/ha) due to YMV incidence and non-availability of high yielding variety for rainfed situation in Theni district	ICM in Black gram	Variety	VBN 8, VBN 11	TNAU	Seed MN Mixture Trichoderma Pulses wonder PPFM Pseudomonas Difenconozola	8 kg 12kg 1kg 5 kg 1 lit 0.5 lit	1040 600 100 500 500 260 600	125 (Kharif –75 and Rabi-50)	450000	Number of pods per plant, Yield, gross return, Net return and BCR	SMS (Agronomy), SMS (Soil Science), SMS (Plant Protection)
Pulses	Greengram	Low yield (7.67 q/ha) due to non-	ICM in Green gram	Variety	CO 8& VBN 5	TNAU	Seed MN Mixture	8 kg 12kg 1kg	1040 600	100 (Kharif -50 and	360000	Number of pods per plant, Yield,	SMS (Agronomy), SMS (Soil Science),

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
		availability of High yielding and short duration variety					Trichoderma Pulses wonder PPFM Pseudomonas Difenconozola	5 kg 1 lit 0.5 lit	100 500 500 260 600	Rabi-50)		gross return, Net return and BCR	SMS (Plant Protection)
Pulses	Redgram	Low yield (11.00 q/ha) due to non-availability of high yielding and short duration variety	ICM in Redgram		CO 8 & CO 7	TNAU	Seed MN Mixture Trichoderma Pulses wonder PPFM Pseudomonas Difenconozola	8 kg 12kg 1kg 5 kg 1 lit 0.5 lit	1040 600 100 500 500 260 600	50 (Kharif - 50)	180000	Number of pods per plant, Yield, gross return, Net return and BCR	SMS (Agronomy) , SMS (Soil Science), SMS (Plant Protection)
	Total									**275**	**990000**		

8.3.2. Cluster Front Line Demonstrations on Oil Seeds 2023-24

S.No	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
1	Groundnut	Low yield (18.65 q/ha) due to non-availability of High yielding varieties and lack of knowledge about quality seeds production	ICM IN Groundnut	Variety	CO 6, TMV 14 and VRI 8, VRI 9, VRI 10	TNAU	Seeds MN Mixtuere TNAU Groudnut rich Trichoderma	40kg 12 kg 5 kg 1kg	3600 600 500 100	125 (Kharif 50 and Rabi 75)	600000	Number of pods/plant, Yield (q/ha), haulm yield (q/ha), BCR	SMS (Agronomy), SMS (Soil Science), SMS (Plant Protection)
2	Sesame	Low yield (5.8 q/ha) due to lack of knowledge about integrated crop management	ICM in Gingelly	Variety	TMV 7 and VRI 3, VRI 5	TNAU	Seeds MN Mixture Trichoderma Azospirillum Phosobacteria Pesudomonas	2kg 12 kg 1 kg 1 lit 1 lit 0.5 lit	240 600 100 400 400 260	50 (25 Kharif and 25Rabi)	120000	Yield, Gross return and BCR	SMS (Agronomy), SMS (Soil Science), SMS (Plant Protection)

S.No	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
3	Caster	Low yield (2.7 q/ha) due to non-availability of improved varieties	ICM in Caster	Variety and hybrid	YRCH 1, YRCH 2	TNAU	Seeds MN Mixture Trichoderma Azospirillum Phosobacteria Pesudomonas	2kg 12 kg 1 kg 1 lit 1 lit 0.5 lit	240 600 100 400 400 260	50 (Kharif 50)	100000	Yield, Gross return and BCR	SMS (Agronomy), SMS (Soil Science), SMS (Plant Protection)
Total										**225**	**820000**		

10. Special Programmes 2022-23

S. No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
1	IFS	Non utilization of natural resources and lower income and employment generation	IFS for Garden land	TNAU	2	2	Cropping – Rs 10500 Dairy Rs 18200 Biogas Rs 10500 Fodder tree Rs 3500 Spawn Production –	96800	P.Maheswaran SMS (Agronomy) and M.Arun Raj SMS (Soil Science)

							Rs 5700 **RS 48400**		
2	EDP	Lack of knowledge on banana fiber handicrafts	Entrepreneurship Development on Banana fiber handicrafts	NRCB	5	1	Training materials, Trainer Cost, Exposure visit and Booklets	40000	M.Ramya Siva Selvi, SMS (Home Science)
3	FFS	Lack of awareness about integrated good Horticultural practices in Banana	ICM in Banana	ATMA	1	0.4	Planting Material – 23,000 MN Mixture – 3,500 Booklet and Resource Person – 3,500	30,000	Dr. G. Rajaraman SMS (Horticulture) Mr. M.Arunraj SMS (SoilScience)
4	FFS	Lack of Knowledge on Integrated Crop Management Practices in Paddy	ICM in Paddy	ATMA	1	0.4	Seed - 400 MN Mixture-800 Pheromone trap -1000 Booklet -300	62500	Mr.C.Sabarinathan SMS (Agricultural Extension)
5	NFDB								
6	SERP								
7	Any other (pl. specify)								

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	FPO-Sugarcane &Betel wine	NABARD	3	2020	(1,1000)	1144000	395000	SMS Agronomy
2	FPO-Grapes	NABARD	3	2020	1,1000	1144000	395000	SMS (Horticulture)

11.2. Project details (Use one table per project)

Funding Agency	NABARD, Chennai
State/Central/Over Seas	State
Title	FPO- Sugarcane and Betel vine
Objectives	• Mobilizing farmers in groups at the village level and build their associations (FPOs) at an appropriate. • Federating point to plan and implement product specific cluster/ commercial crop cycles strengthen farmer capacity through agricultural best practices for enhanced productivity in Sugarcane and Betel vine. • Ensuring access to and usage of quality inputs and services for intensive agriculture enhancing cluster competitiveness. • Facilitate access to fair & remunerative markets including linking producer groups to marketing opportunities by market aggregators for Sugarcane by products and Betel vine.
Study area	Crop production, Processing and Marketing
Methodology	Farmers Mobilization – FIG Formation – FPO formation and Business plan
Team Members	SMS Agronomy
Budget	1144000

Funding Agency	NABARD, Chennai
State/Central/Over Seas	State
Title	FPO- Grapes
Objectives	• Mobilizing farmers in groups at the village level and build their associations (FPOs) at an appropriate. • 2. Federating point to plan and implement product specific cluster/ commercial crop cycles strengthen farmer capacity through agricultural best practices for enhanced productivity in Sugarcane and Betel vine. • 3. Ensuring access to and usage of quality inputs and services for intensive agriculture enhancing cluster competitiveness.

	• 4. Facilitate access to fair & remunerative markets including linking producer groups to marketing opportunities by market aggregators for Sugarcane by products and Betel vine.
Study area	Crop production, Processing and Marketing
Methodology	Farmers Mobilization – FIG Formation – FPO formation and Business plan
Team Members	SMS (Horticulture)
Budget	11,44,000.00

12. Trainings planned during 2023-24

12.1. Trainings for Farmers and Farm Women planned during 2023-24

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
1.	Crop Production	Paddy	Farmers are getting Low yield (47.5 q/ha) due to non-availability of improved variety, yellow stem borer incidence and poor Crop management practices	FLD	ICM in Paddy	1	20	SMS (Agronomy) SMS & (Plant Protection)
		Sorghum	Low yield (13.5 q/ha) due to non-availability of improved variety and poor crop management practices	FLD	ICM in Sorghum	1	20	SMS (Agronomy)
		Minor millets	Lack of knowledge about minor millets varieties and improved agricultural practices	-	Integrated minor millets cultivation technologies	2	60	SMS (Agronomy) SMS (Soil Science)
		Tenai	Lack of availability of improved Tenai variety and poor crop management practices	FLD	ICM in Tenai	1	20	SMS (Agronomy)
		Groundnut	Low yield (12.5q/ha) due to poor crop management and lack of availability of improved varieties	FLD	ICM in Groundnut	2	40	SMS (Agronomy) SMS (Soil Science)

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
		Paddy	Low yield (47.5 q/ha) due to continues cultivation of same variety and incidence of Yellow Stem Borer	FLD	Integrated crop management practices in VADT 58 Paddy cultivation	1	20	SMS (Agronomy) SMS (Plant Protection)
		Cotton	Farmers getting Low yield (11.7 q/ha) due non availability of improved varieties and poor crop management practices.	FLD	ICM in Cotton	1	20	SMS (Agronomy) SMS (Plant Protection)
		Fodder crops	Non availability of improved fodder crop and poor crop management in fodder	-	Integrated fodder production technologies	1	20	SMS (Agronomy) SMS (Soil Science)
		Cumbu	Low yield (11.3 q/ha) due to non-availability of new cumbu variety and poor crop management practices	FLD	ICM in Cumbu	1	20	SMS (Agronomy)
		Maize	Low yield (56.4 q/ha) due non adoption of improved crop management practices	-	ICM in Maize	1	20	SMS (Agronomy) SMS (Soil Science)
		Cropping system	Lack of knowledge about cropping system management in coconut	-	Coconut based cropping system	1	20	SMS (Agronomy)
2.	Horticulture	Horticulture Nursery Management practices.	Lack of knowledge in Horticulture Nursery development	-	Vegetable nursery plants production.	3	60	SMS (Horticulture)
		Post Harvest Horticultural Technology	Lack of knowledge in Postharvest technology.	-	Post-harvest Horticultural Technology	3	60	SMS (Horticulture)& SMS (Home Science)
		Papaya	Less keeping quality of fruits. Poor quality of fruits. Lack of	-	Enhancement of shelf life in Papaya	2	40	SMS (Horticulture) &

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
			long-distance transport.					SMS (Agronomy)
		Grape	Lack of knowledge about Recent techniques for Grape cultivation	FLD	GAP in Grape cultivation	3	60	SMS (Horticulture) & SMS (Agronomy)
		Roof/ Terrace garden Technologies	Minimum knowledge in terrace garden techniques	-	Roof/ Terrace garden technologies	3	60	SMS (Horticulture)& SMS (Agronomy)
		Vegetable cultivation	Lack of knowledge on improved vegetable cultivation	OFT	Protected methods of Vegetable cultivation	2	40	SMS (Horticulture) & SMS (Plant Protection)
		Kitchen garden Technologies	Lack of awareness in Kitchen garden	-	Kitchen garden development	2	40	SMS (Horticulture)
		Brinjal	Non availability of high yielding short duration variety	OFT	INM & high yielding variety in Brinjal	2	40	SMS (Horticulture) & SMS (Plant Protection)
		Coriander	Non availability of improved variety and low yield	FLD	INM in Coriander	1	20	SMS (Horticulture) & SMS (Soil Science)
		Banana	Non availability of improved variety and low yield, Poor quality of fruits, Low shelf life	-	INM & improved variety in Banana	1	20	SMS (Horticulture) & SMS (Soil Science)
3.	Soil Health and Fertility Management	Black gram	Low yield (6.2 q/ha) due improper nutrient management practices and non-application of growth regulators.	OFT	INM in Blackgram	1	20	SMS (Soil Science) & SMS (Agronomy)

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
		Tomato	Low income due to imbalanced nutrient application. Low productivity and profitability in view of increased production cost due to high usage of chemical fertilizers.	FLD	Organic Nutrient Management Practices in Tomato	2	40	SMS (Soil Science) &SMS (Horticulture)
		Groundnut	Low productivity due to imbalanced nutrient application and non-application of growth promotors.	OFT	INM in Groundnut	1	20	SMS (Soil Science) & SMS (Agronomy)
		Paddy	Farmers often use excessive dose of nitrogenous fertilizer, this leads to high cost of fertilizer low fertilizer use efficiency and other environmental problems.	FLD	Cost effective nutrient management practices in Paddy	3	60	SMS (Soil Science) & SMS (Agronomy)
		Sugarcane	Farmers getting low yield (96.8 t/ha) due to lack of awareness about crop boosters.	FLD	INM in Sugarcane	1	20	SMS (Soil Science) & SMS (Agronomy)
		Coconut	Lack awareness about nutrient management, Button shedding	-	INM in Coconut	2	40	SMS (Soil Science) & SMS (Horticulture)
		Grapes	Yield loss (20 %) due to deficient of micronutrient; poor quality of fruits; poor quality of fruits; low market value due to poor colour development.	-	INM in Grapes	2	40	SMS (Soil Science) & SMS (Horticulture)
		Banana	Lack of awareness on latest cultivation technologies	-	INM in Banana	1	20	SMS (Soil Science) & SMS

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
			and Yield loss (15 %) due to improper nutrient management and Micronutrient deficiency					(Horticulture)
		Guava	Yield loss (25 %) due to Micro nutrient deficiency, unpruning, uncared orchard, Poor quality fruits, non-adoption of ICM practices	-	INM in Guava	3	60	SMS (Soil Science) & SMS (Horticulture)
		Manure preparation	Lack of knowledge about low cost manure preparation	-	Manure preparation technologies	1	20	SMS (Soil Science) &SMS (Agronomy)
		Onion	Low yield (12t/ha) due to improper nutrient management; poor quality of bulbs; lack of awareness about foliar nutrition;	OFT	INM in Onion	1	20	SMS (Soil Science) & SMS (Horticulture)
4.	Livestock Production and Management	Cattle	Loss of milk production due to mastitis	FLD	Cattle disease management	1	20	PA (Animal Science)
		Cattle	Loss of production due to Tick infestation	FLD	Cattle disease management	3	60	PA (Animal Science)
		Japaneese Quail	Lack of awareness about economic importance of quail rearing	FLD	Quail rearing and Management	1	20	PA (Animal Science)
		Poultry	High mortality of birds due to lack of awareness of diseases	-	Disease management in poultry	2	40	PA (Animal Science)
		Cattle	Loss of milk production during summer season	-	Cattle management during summer	1	20	PA (Animal Science)
		Sheep and Goat	Loss of production due to diseases	-	Prevention and disease management in sheep and goats	1	20	PA (Animal Science)
		Livestock	Less production and infertility	-	Importance of mineral	1	20	PA (Animal

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
			due to lack of mineral supplement		mixture in livestock feeding			Science)
		Livestock	Less milk production due to lack of awareness about multi fodder production	FLD	Increase milk production with multi Fodder production	2	40	PA (Animal Science)
		Cattle	Loss of milk production due to metabolic diseases	-	Prevention and management of metabolic diseases in dairy animals	1	20	PA (Animal Science)
		Cattle	Less utilization of compound feed due to high cost	-	Preparation of compound feed with locally available ingredients	2	40	PA (Animal Science)
5.	Home Science/ Women empowerment	Banana	Lack of knowledge on preparation of RTU using basic five food groups	FLD	Nutrient Dense RTU Multigrain Mixes	1	20	SMS (Home Science)
		Coconut	Fungal formation during dying of copra and lack of knowledge on value addition in coconut	-	PHM & Value Addition in Coconut	1	20	SMS (Home Science)
		Tamarind	Lack of knowledge on tamarind byproducts Not available in the Market	-	Value-Added Products from Tamarind	1	20	SMS (Home Science)
		Herbal Plants	Lack of knowledge on Immunity Boosting Herbs	FLD	Establishment of Medicinal Garden and Immunity boosting plants	1	20	SMS (Home Science)
		Greens	Lack of awareness on locally available Immunity Boosting foods	FLD	Immune Boosting Soup using Dried Leaf /Powder	1	20	SMS (Home Science)
		Domestic Solar Dryer for	Low market price during peak season		Dehydrated Products using Domestic Solar	1	20	SMS

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
		Dehydration	Lack of knowledge on dehydrated products from Horticultural Crops	FLD	Dryer			(Home Science)
		Pulses	High wastage during storage period and lack of knowledge on Safe storage techniques	OFT	Safe Storage Techniques for pulses	1	20	SMS (Home Science)
		Mango	Dropping of fruits during flowering stage and Low Market price during peak harvesting period	-	Value Added Products from Mango	1	20	SMS (Home Science)
		Moringa	Lack of knowledge on Health benefits moringa byproducts	-	Value Added Products from Moringa	1	20	SMS (Home Science)
		Cereals	Lack of knowledge on value added products from traditional rice and Millets	-	Value added products from cereals	1	20	SMS (Home Science)
		Spices	Lack of knowledge on quality production of masala powder preparation	-	Value added products from Spices	1	20	SMS (Home Science)
		Groundnut	Lack of knowledge on high nutrient products from groundnut	-	Value Addition in Groundnuts	1	20	SMS (Home Science)
		Grapes	Low price during peak harvest time	OFT	Value Added products from Grapes	1	20	SMS (Home Science)
6.	Agril. Engineering	-	-	-	-	-	-	-
7.	Plant Protection	Paddy	Disease caused by blast and pest stem borer. Yield loss (30 %) due to pest and disease management	-	IPDM	1	20	SMS (Plant Protection) & SMS (Agronomy)
		Mango	Disease caused by Downy mildew, Powdery mildew, anthracnose, and pest hopper , leaf webber. Yield loss (35 %)	FLD	IPDM	2	40	SMS (Plant Protection) & SMS (Horticulture)

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
			due to pest and disease management					
		Grapes	Disease caused by Downy mildew, powdery mildew and anthracnose, pest mealy bug and thrips. Yield loss (65 %) due to pest and disease management	-	IPDM	2	40	SMS (Plant Protection) & SMS (Horticulture)
		Banana	Disease caused by leaf spot and pest Leaf eating caterpillar. Yield loss (30 %) due to pest and disease management	FLD	IPDM	2	40	SMS (Plant Protection) & SMS (Horticulture)
		Maize	Pest affect by Fallarmy worm. Yield loss (35%) due to pest	FLD	IPM in Maize	2	40	SMS (Plant Protection)
		Coconut	Pest incidence Rhinocerous beetle, Redpalm weevil and Rugose spiraling white fly. Yield loss (30 %) due to pest management	FLD	IPM	2	40	SMS (Plant Protection) & SMS (Horticulture)
		Pulses	Disease caused by Dry root rot and Leaf spot Yield loss (35 %) due to disease management	-	IDM	1	20	SMS (Plant Protection) & SMS (Agronomy)
		Moringa	Disease caused by Early and late blight, Pest fruit borer. Yield loss (35 %) due to pest and disease management	FLD	IPDM	1	20	SMS (Plant Protection) & SMS (Horticulture)
		Cashew	Disease caused by Die back. Pest Tea mosquito bug, Yield loss (30 %) due to pest and disease management	FLD	IPDM	1	20	SMS (Plant Protection) & SMS (Horticulture)
		Brinjal	Fruit borer incidence is high.	-	IPM	1	20	SMS (Plant

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
			Yield loss (35 %) due to pest management					Protection) & SMS (Horticulture)
		Onion	Disease caused Basal rot, pest thrips. Yield loss (30 %) due to pest and disease management	-	IPDM	1	20	SMS (Plant Protection) & SMS (Horticulture)
		Maize	Fall armyworm incidence is high, Yield loss (40%) due to pest and disease management	FLD	IPM	1	20	SMS (Plant Protection) & SMS (Agronomy)
8	Fisheries	-	-	-	-	-	-	-
9	Capacity Building and Group Dynamics	Group Management	Lack of knowledge about Management of farmers groups	-	Training on Enhancement of Social Capital in Farmers Interests Group (FIGs)	2	40	SMS (Agricultural Extension)
10	Agro-forestry	Agro forestry	Lack of knowledge about Agro forestry technologies	-	Agro forestry technologies for sustainable income	1	20	SMS (Agronomy) & SMS (Soil Science)
11	Others - ICT	ICT	Majority of the farmers are unaware about the financial services available in Farming sector	-	Training Programme on Financial Linkages available for farming community	2	40	SMS (Agricultural Extension)
		ICT	Lacking in skill about ICT applications in Agriculture among farming community	-	Training on Information Communication Technologies(ICTs) Applications among farmers	3	60	SMS (Agricultural Extension)
		ICT	Personal contact with every farmer is difficult. Conventional Technology transfer mechanism is not effective in catering the need	FLD	Training Programme on Expert System Mobile Applications among farmers	3	60	SMS (Agricultural Extension)

S. No	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants (including SC/ST Farmers)	Names of the team members involved
			of individual farmer on time. Inconsistency in availing information					
		ICT	Lack of knowledge about government schemes and services among farming community	-	Training Programme on Agricultural schemes and services available for farming community	2	50	SMS (Agricultural Extension)
		ICT	Lack of knowledge about seed certification among farming community	-	Training on Seed Production and Certification among farming community	1	30	SMS (Agricultural Extension)
					Total	**111**	**2220**	

12.2. Trainings for Rural Youth planned during 2023-24

S. No.	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (OFT/ FLD)	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
1.	Nursery Management of Horticulture crops	-	-	-	-	-	-	-
2.	Training and pruning of orchards	-	-	-	-	-	-	-
3.	Protected cultivation of vegetable crops	Tomato, Brinjal and Chilli	Lack of knowledge in Protected cultivation of tomato and capsicum	-	Protected cultivation of Tomato, Brinjal and Chilli	3	60	SMS (Horticulture)& SMS (Agronomy)
4.	Commercial fruit production	Mango, Guava, Sapota and Papaya	Lack of knowledge in recent techniques in fruit production	-	Recent technologies in Fruit production	1	20	SMS (Horticulture)& SMS (Agronomy)

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
5.	Integrated farming	-	-	-	-	-	-	-
6.	Seed production	Pulses Seed Production	Lack of knowledge about pulses seed production technologies	-	Pulses seed Production technologies	1	20	SMS (Agronomy)
7.	Production of organic inputs	Organic farming	Lack of knowledge about panchakavya preparation and its usage	-	Panchakavya production	1	20	SMS (Agronomy)
		Soil Health Management	Lack of awareness about role of bio fertilizer and organic manures in soil fertility	-	Production of bio fertilizer and organic manures in soil fertility	2	40	SMS (Soil Science) & SMS (Agronomy)
		Soil Health Management	Lack of knowledge about enriched compost preparation	-	Enriched compost preparation	1	20	SMS (Soil Science) & SMS (Agronomy)
7.	Planting material production	-	-	-	-	-	-	-
8.	Vermi-culture	Soil Health Management	Lack of knowledge about vermicompost preparation	-	Vermicompost production technology	1	20	SMS (Soil Science) &SMS (Agronomy)
9.	Mushroom Production	Mushroom	Lack of awareness on Mushroom production	-	Mushroom production and value-added products	2	60	SMS (Plant Protection) & SMS (Home Science)
10.	Bee-keeping	Apiary Management	Lack of Management of Bee boxes	-	Beekeeping	1	20	SMS (Home Science) & SMS (Plant Protection)
11.	Sericulture	Sericulture	Lack of awareness on Sericulture	-	Sericulture	1	30	SMS (Plant Protection) &

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
								SMS (Horticulture)
12.	Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-
13.	Value Addition	Banana	Lack of knowledge on preparation of RTU Multigrain mixes using basic five food groups	FLD	Demonstration of Nutrient Dense RTU and RTS Healthy Foods	**1**	20	SMS (Home Science)
		Tomato	Low cost during peak season	-	PHT&Value Addition in Tomato	1	20	SMS (Home Science)
		Milk	Lack of awareness on milk by products	-	Value Addition products from Milk	1	20	SMS (Home Science)
14.	Small scale processing	Millets	Lack of knowledge on Processing and Value addition in Millets	-	Processing and Value-added products from Millets	1	20	SMS (Home Science)
15.	Post-Harvest Technology	Coconut	Fungal infections drying over coconut Lack of processing and value chain in coconut	-	Post Harvest Management and Value Addition in Coconut	1	20	SMS (Home Science)
16.	Tailoring and Stitching	-	-	-	-	-	-	-
17.	Rural Crafts	-	-	-	-	-	-	-
18.	Production of quality animal products	-	-	-	-	-	-	-

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
19.	Dairying	-	-	-	-	-	-	-
20.	Sheep and goat rearing	-	-	-	-	-	-	-
21.	Quail farming	-	-	-	-	-	-	-
22.	Piggery	-	-	-	-	-	-	-
23.	Rabbit farming	-	-	-	-	-	-	-
24.	Poultry production	-	-	-	-	-	-	-
25.	Ornamental fisheries	-	-	-	-	-	-	-
26.	Composite fish culture	-	-	-	-	-	-	-
27.	Freshwater prawn culture	-	-	-	-	-	-	-
28.	Shrimp farming	-	-	-	-	-	-	-
29.	Pearl culture	-	-	-	-	-	-	-
30.	Cold water fisheries	-	-	-	-	-	-	-
31.	Fish harvest and processing technology	-	-	-	-	-	-	-
32.	Fry and fingerling rearing	-	-	-	-	-	-	-
33.	Others	Nematode management in Grape cultivation-Grape	Lack of knowledge in nematode management	-	GAP in grape cultivation	2	40	SMS (Horticulture)& SMS (Plant protection)
		Fodder Seed Production-Fodder crops	Lack of knowledge about fodder seed production technologies	-	Fodderseed production technologies	1	20	SMS (Agronomy)
		Agri entrepreneurship Development	Rural Youth facing limited access to markets, finance, education and skill training,	-	Training on agri-business Opportunities available for rural youth	1	30	SMS (Agricultural Extension)

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
			youth are often unemployed or work informally – often in low-paid, manual and hazardous jobs					
		Information Communication Technology	Lacking in skill about ICT applications in Agriculture among youth farmers due to lack of awareness, inability to use ICT tools and language barrier etc.,	FLD	Training on Information Communication Technologies(ICTs) Applications among Rural youth	1	20	SMS (Agricultural Extension)
		Azolla Production	Lack of awareness on Azolla feeding in livestock	-	Production and feeding of azolla in livestock	2	60	PA (Animal science) & SMS (Agronomy)
					Total	**28**	**660**	

12.3. Trainings for Extension Personnel planned during 2023-24

S. No	Thematic area	Training Course Title	No. of Courses	No. of Participants
1.	Productivity enhancement in field crops	Improved agricultural practices	2	50
2.	Plant Protection	Recent Advances in Plant protection	1	20
3.	Integrated Nutrient management	Micronutrient Management Practices in Horticultural Crops	1	25
4.	Rejuvenation of old orchards	Transformation of old orchards through modern technologies.	1	25
5.	Protected cultivation technology	Minor millets production technologies	1	20
		Recent technologies in vegetable crop production	2	50
6.	Production and use of organic inputs	Production of Organic Crop Boosters	1	25
7.	Care and maintenance of farm machinery and implements	-	-	-

8.	Gender mainstreaming through SHGs	-	-	-
9.	Formation and Management of SHGs	-	-	-
10.	Women and Child care	Development of supplementary and low-cost nutritious foods from basic five food groups foods	1	20
11.	Low cost and nutrient efficient diet designing	Low cost and nutrient rich foods from locally available produces	1	20
12.	Group Dynamics and farmers organization	Training Programme on Managerial Skills for members Board of Directors (BODs) in Farmer Producer Organization	1	20
13.	Information networking among farmers	-	-	-
14.	Capacity building for ICT application	Training Programme on usage of ICT Applications in Agriculture for Para-Extension workers	1	20
15.	Management in farm animals	-	-	-
16.	Livestock feed and fodder production	-	-	-
17.	Household food security	Household food security by nutrition gardening	1	40
18.	Any other	Mushroom Production Technology	1	20
		Training on Leadership Development for Women Extension Functionaries	1	20
		Orientation Training on KVK activities to NGO workers	1	20
		Total	**16**	**375**

12.4. Skill trainings and vocational trainings planned during 2023-24

S.No.	Training title	Duration (Days)	No. of programmes	Sponsoring agency	Participants (Nos.)	Name of the team members
1	Integrated Farming System	3	1	NABARD, Theni	25	SMS (Agronomy)
2	Production of Organic Farming	6	1	ATMA, Theni	15	SMS (Agronomy), SMS (Soil Science), SMS (Plant Protection)
3	Polyhouse cultivation	5	1	ATMA, Theni	25	SMS (Horticulture), SMS (Agronomy), SMS (Soil Science)
4	Organic Production	2	1	ATMA	20	SMS (Plant Protection) & (Horticulture)
5	Skill Training on usage of ICT tools among community resource persons	2	1	MahalirThittam	20	SMS (Agricultural Extension)

6	Millets Production and Value Addition	1 6	1	MANAGE, SAMETI& ATMA, Theni	28	SMS (Agronomy) and SMS (Home Science)
	Total		6		**133**	

12.5. Sponsored trainings planned during 2023-24

S. No.	Thematic area and the Crop/Enterprise	Training title	No. of programmes and Duration (days)	Type of Clientele*	Expected No. of participants	Sponsoring agency	Names of the team members involved
1.	Crop Production	Good Agricultural Practices	1 3	SHGs	30	MahalirThittam, Govt. of Tamilnadu	SMS (Agronomy)
2	Millets	Improved Millets Production technologies	1 4	Representatives	30	Vaalnthukaatuvomthittam	SMS (Agronomy)
3	Natural farming in horticulture	Natural farming	1 3	Farmers, SHG and farm women	25	NABARD	SMS (Horticulture), SMS (Soil science)
4.	Organic management	Bio pesticide Production	1 3	SHGs and farm women	20	NABARD	SMS (Plant Protection)
5.	Beekeeping	Basic Beekeeping Techniques	1 5	Youth, Farm Women	20	KVIC, DO, Madurai	SMS (Home Science)
				Total	**125**		

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

13. Extension programmesplanned during 2022-23

S. No.	Extension programme	No. of programmes	No. of Participants	Team member involved
1	Advisory Services	239	410	All staffs
2	Diagnostic visits	76	270	All staffs
3	Field Day	37	1361	All staffs
4	Group discussions	77	931	All staffs
5	Kisan Ghosthi	5	390	All staffs
6	Film Show	12	401	All staffs
7	Kisan Mela	2	430	All staffs
8	Exhibition	12	1091	All staffs
9	Scientists' visit to farmers field	147	620	All staffs
10	Plant/Soil health/Animal health camps	10	160	All staffs
11	Ex-trainees Sammelan	6	290	All staffs
12	Farmers' seminar/workshop	6	390	All staffs
13	Method Demonstrations	52	791	All staffs
14	Celebration of important days	14	670	All staffs
15	Special day celebration	5	270	All staffs
16	Exposure visits	16	480	All staffs
17	Technology week	5	360	All staffs
18	FFS	5	170	All staffs
19	Farm innovators meet	4	300	All staffs
20	Awareness programs	39	1210	All staffs
21	Lecture delivered	72	2270	All staffs
22	TV/Radio Programme	17	300	All staffs
23	News clips	110	0	All staffs
24	Popular Articles	46	0	All staffs
25	Research Article	15	0	All staffs
26	Extension Literatures	36	1700	All staffs
27	Kisan Mobile Advisory Services	47	15000	All staffs
	Others (Specify)	0	0	All staffs
	Total	1028	30265	

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	Fodder	Azolla	2	SMS (Agronomy
2	IFS	IFS	1	All SMS
3	Fodder	Fodder bank	1	SMS (Agronomy
4	Crop Production	Crop cafeteria (Millets)	1	SMS (Agronomy)
5	Home Science	Mini Dal Mill Unit	1	SMS (Home Science)
6		Nutrition Garden, Terrace Garden Vertical Garden and Micro Greens	1	SMS (Home Science)
7		Food Processing and Value Addition	1	SMS (Home Science)
8		Solar Dryer	1	SMS (Home Science)
9	Agri.Engg.	Location Specific Drudgery Reducing	1	SMS (Home

S.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
		Technologies		Science)
10	Vermicompost	Vermicomposting production	1	SMS (Soil Science)
11	Grapes	Y angle grapes cultivation	1	SMS (Horticulture)
12	Plant Protection	Mushroom Production	1	SMS (Plant Protection)

14.2 Technological products plannedto 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) orNos.	Names of the team members involved
1	Seeds	Groundnut (CO 6, VRI 9,10)	10 q	SMS Agronomy and PA (Farm Manager)
		Black gram VBN 8 and VBN 10	4 q	SMS Agronomy and PA (Farm Manager)
		Sorghum CO 32	4 q	SMS Agronomy and PA (Farm Manager)
		Green gram CO 8	4 q	SMS Agronomy and PA (Farm Manager)
		Fodder Sorghum COFS 29	0.5 q	SMS Agronomy and PA (Farm Manager)
2	Planting materials	Mango, Sapota & Guava seedlings	10,000 Nos	SMS Horticulture and PA (Farm Manager)
		Tomato, Chilli, & Brinjal	200000 nos	SMS Horticulture and PA (Farm Manager)
		Banana suckers	10000 Nos	SMS Horticulture and PA (Farm Manager)
3	Livestock	-	-	-
4	Bio products	Vermicompost	120 q	SMS (Soil Science)
5	Other inputs	Banana Special	10000	SMS (Soil Science)
6	Bio control	*Trichoderma asperllum and Bacillus subtilis*	500+500=1000	SMS (Plant Protection)

14.3. Technological Information

14.3.1. Technology backstopping to line departments

S.No	Category	Technological capsules / Number	Names of the team members involved
1	Crop production	17	SMS (Agronomy) SMS (Horticulture)
2	Value Addition	14	SMS Home Science
3	Nutrient management practices	4	SMS (Soil Science)
4	Plant protection practices	4	SMS (Plant Protection)

14.3.2. Publications planned

S.No	Category of publication	Number	Names of the team members involved
1	Books	3	All SMS
2	Booklets	20	All SMS
3	Leaflets	15	All SMS
4	Pamphlets	6	All SMS

15.Additional(Collaborative) Activities Planned during 2023-24

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	Tamil Nadu State Council of Science and Technology	Publication of Technologies Guide	Publications	40,000	All SMS
2	ATMA, Department of Agriculture	Skill training for rural youth	Skill training on Seed Production	60000	All SMS
3	MahalirThittam, Govt. of Tamil Nadu	Sponsored training for Community resource Persons	Training programme on Organic Farming and Good Agricultural Practices	90000	All SMS
4	Tamil nadu Rural transformation Project	Sponsored training programme	Sponsored training programme on Bhendi cultivation and value addition	65000	SMS (Horticulture) SMS (Home Science)

16. Revolving Fund

16.1. Status of Revolving fund

Opening balance as on 01.04.2022 (Rs.)	Receipts during 2022-23 (Rs)	Expenditure incurred during 2022-23 (Rs.)	Closing balance as on 25 .03.2023 (Rs.)
1155157	217000	420500	951657

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

S.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Name of the team member involved
1	Groundnut CO 6 and VRI 9,10	10 q	90000	SMS (Agronomy)
2	Black gram VBN 8 and VBN 10	4 q	48000	SMS (Agronomy)
3	Sorghum CO 32	4 q	8000	SMS (Agronomy)
4	Green gram CO 8	4 q	32000	SMS (Agronomy)
5	Mango, Sapota & Guava seedlings	10,000 Nos		SMS (Horticulture)
6	Tomato, Chilli, &Brinjal	200000 nos	40000	SMS (Horticulture)
7	Banana suckers	10000 Nos	20000	SMS (Horticulture)
8	IIHR Banana Special	10000 kg	160000	SMS (Soil Science)
9	Amylase Rich Foods	100 kg	15,000	SMS (Home Science)
10	Amchur Powder	100 kg	50,000	
11	Banana Nutri Mix	100 kg	20,000	
12	Millets by products	100 kg	10000	
13	Mini Dal Mill Unit	200 kg	5000	
14	RTS Drink	1000 lit	10000	
15	Nutri Garden seeds	50 kg	10000	
16	*Tricodermaasperullum*	260 kg	45360	SMS (Plant protection)
17	*Bacillus subtilis*	260 kg	45360	

17Activities of soil, water and plant testing laboratory during 2023-24

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	SMS (Soil Science)
		Traditional lab	250	250	SMS (Soil Science)
		AAS	-	-	SMS (Soil Science)
2	Water	Traditional lab	300	-	SMS (Soil Science)
3	Plant	-	-		-

18. Plan of activity for Institutional Farm

S.No.	Activity	Area (ha)	Names of the team members involved
1	Organic Cultivation of Vegetables	0.4 ha	SMS (Soil Science), SMS (Horticulture) and Farm Manager
2	Banana Intercropping system	0.8 ha	All SMS and Farm Manager
3	Grapes cultivation (Y angle and conventional Pandal system)	0.4 ha	SMS (Horticulture) and Farm Manager
4	IPM in Maize	0.4 ha	SMS (PP) and Farm Manager
5	Red Guava cultivation	0.4 ha	SMS (Horticulture) and Farm Manager
6	Groundnut Seed Production	0.4 ha	SMS (Agronomy) and Farm Manager
7	Green gram Seed production	0.4 ha	SMS (Agronomy) and Farm Manager
8	ICM in Bhendi	0.4 ha	SMS (Horticulture) and Farm Manager

19. Demonstration units in KVK premises

S. No.	Name of Demo unit	Capacity for production (specify units)	Names of the team members involved
1	Azolla	50 kg	SMS (Agronomy)
2	Vermicompost	12000 kg	SMS (Soil Science)
3	Horticulture Nursery	30000 Nos	SMS (Horticulture)
4	Grapes Demo Unit	12t	SMS (Horticulture)
5	Nutri Garden and Micro Greens	75 kg /season	SMS (Home Science)
6	Terrace Garden	50 kg /season	
7	Vertical Medicinal Garden	20 plants	
8	Dal Mill Unit	200 kg /day	
9	Apiary Unit	20 Bee boxes	
10	Solar dryer	32 Sq.ft	

20. E-linkage activities status / proposed during 2023-24

Activity	Particulars	No. of farmers in database/ involved in activity/ downloads/ users etc
Website	Link: kvktheni.org.in	1500
Mobile App	Name and link	-
ICT initiative		-
KVK portal (update status)	Infrastructure details & photos uploaded (no): Events uploaded:1428 News items submitted:25	
KVK mobile App of ICAR	Downloaded and used by scientists (no.)8	
Other mobile Apps in use by KVK	13	
mKisan of DAC & FW		1230

Social media		
a) WhatsApp groups	No. of groups/KVK: 6	1848
b) Facebook	Link: kvkcendect Theni	896
c) Twitter	Handle name: @KrishiTn (Krishi Vigyan Kendra, Theni)	100
Membership / participation in online digital platforms for services/ marketing etc.		
KVK Blogs etc.	-	
Collaboration with public/ private firms for audio/ video conferencing etc	Agency:HajiKarutharaoutherHowdiya College , Uthamapalayam and Sri Adhi sunjana Giri college for women, Cumbum MoU (yes/no): Yes No. of programs done: 12	

21. Farmer's Field School planned

S. No	Thematic area	Title of the FFS	No. of members in FFS group	Budget proposed in Rs. In lakhs
1	Integrated Crop Management in Groundnut	ICM in Groundnut	25	0.40

22. Details of Innovative Farmers network established

S.No.	Name of the Innovations	Details of the innovative Farmers network established
1.	Improved Wood Stove	V. Jayprakashan, Innovator, Kerala
2.	Paddy Husk Stove	Ashok Thakur East Champaran, Innovator, Bihar
3.	Fruits and Vegetable Capper	Shaji Varghese, Ernakulum, Innovator, Kerala
4.	Fruit Nipper	MadevShrikrishna Mahajan, Ratnagiri, Innovator, Maharashtra
5.	Tamarind de-seeder Machine	Dayaram Vishram Chouhan Jeypore, Innovator, Odisha
6.	Onion*(Sona-40)*	Babasaheb nana pisore, Innovator, Maharashtra-
7.	Brinjal*(HZKB-1)*	Lakshmibhaizulapi, Innovator, Karnataka
8.	Guava *(G-vilaspasand)*	Shri ram vilasmaurya, Innovator ,Uttar Pradesh
9.	Coconut Tree Climber	Venkat, Innovator, Coimbator, Tamil Nadu
10.	Modified Cono weeder	Duraisamy, Innovator, Karur, Tamil Nadu
11.	Solar Powered Auto	Sugumar, Innovator, Theni, Tamil Nadu
12.	Air Flow Funnel	Kannan, Innovator, Theni, Tamil Nadu
13.	Multi Tree Climber	Venkat, Innovator, Coimbatore, Tamil Nadu
14.	Banana fiber products	Murugesan, Innovator, Madurai, Tamil Nadu
15.	Multi Purpose Food Processing Machine	

23.Budget - Details of budget utilization (2022) up to 24 March 2023(Rs.)

S. No	Particulars	Sanctioned Grant for 2022-23	Released for 2022-23	Expenditure for the period from 1-4-2022 to 24-3-2023
A	**RECURRING**			**9169851**
1	**Pay & Allowances**	9387000		
2	**Travelling Allowances**	140000		141200
	a) Field activities &programmes			
	b) Training programmes			
3	**Contingencies**			
A	***Office Contingencies***	419000		419380
B	***Technical Programmes including TSP/ SCSP***	864000		866000
	Total of Contingencies	**1283000**		**1285220**
	Sub Total of Recurring Items (1+2+3)	**10810000**		**10596431**
4	**NON-RECURRING CONTINGENCIES:**			
	Works	-		
	Furniture& Equipment	-		
	Vehicle	900000		944294
	TSP (creation of physical assets)			
	SCSP Component (Creation of Physical assets)	640000		643000
	Sub Total of non-recurring Items (4)	**1540000**		**1587294**
5	**GRAND TOTAL**	**12350000**		**12183725**

24. Details of Budget Estimate (2023-24) based on proposed action plan

S. No	Particulars	Budget Estimate for 2023-24
A	**RECURRING ITEMS**	
1	**Pay & Allowances**	**12500000**
2	**Travelling Allowances**	**300000**
a	Field activities &programmes	
b	Training programmes	
3	**Contingencies**	
	Office Contingencies	
a	Stationery, telephone, stamps and other expenditure on office running	600000
b	POL, repair of vehicles, tractor and equipment including hiring of vehicle	
4	**Technical Programmes**	**1836750**
a	Rs.150/- per person per day towards food and refreshments for KVK training programmes for farmers/extension personnel	
b	Teaching materials for training and demonstrations	
c	Training of extension functionaries	
d	Publications of extension literature for farmers and extension functionaries	
e	Honorarium for trainers	
f	On Farm Testing (Problem Oriented)	
g	Front Line Demonstration on major crops including oilseeds & pulses, fodder crops, animal husbandry, fisheries, etc.,	
h	Kisan Meals /Farmers Fair (at KVK farm)	
i	Library (Purchase of newspaper, journals, etc.,)	
j	Maintenance of farm	
k	Value chain management of FPO/Integrated Farming System (IFS)/Farmers Field School(FFS)	
l	Soil Health Card (SHC)	
m	Website/mobile app etc.	
	Total of Contingencies	**400000**
	Total of Recurring Items	**2500000**
B	**NON-RECURRING ITEMS:**	
a	Works (Compound wall)	8330000
b	Vehicle (Jeep/Tractor/2 Wheeler)	
c	Furniture	300000
d	TSP (creation of physical assets)	
e	SCSP Component (Creation of Physical assets)	700000
	Total of Non-Recurring Items	1200000
	GRAND TOTAL (A+B)	**25166750**

*to match with BE 2023-24 allocation including of research & operational expenses head including TSP and SCSP (15% of operational expenses for OFTs, 40% to FLDs, 25% to trainings and 20% to extension activities (indicative)

Signature of the Senior Scientist and Head of the KVK

Forwarded **Verified** **Approved**

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