

Tamil Nadu Agricultural University

ICAR-Krishi Vigyan Kendra

Needamangalam- 614 404

Thiruvarur District

9th Scientific Advisory Committee meeting report

(2019-20-2020-21)

Agenda Item No. 01

Chairman's Opening Remarks about KVK

i. Establishment details

S. No	Particulars	Details
01	Name of the KVK	Thiruvarur
02	Postal address of the KVK	ICAR-Krishi Vigyan Kendra Needamangalam Thiruvarur District PIN – 614 404
03	Telephone number /Fax / email and Web site address of the KVK	Telephone: 04367- 260666, 04367-261444 Fax: 04367- 260666 email: kvkndm@tnau.ac.in Web site:www.kvkthiruvarur.com
04	Name of the Host Organization	Tamil Nadu Agricultural University
05	Postal address of the Host Organization	Tamil Nadu Agricultural University, Coimbatore-641 003.
06	Telephone number /Fax / email and Web site address of Host Organization	Telephone: 0422- 2431222 Fax:0422-2431821 E mail: registrar@tnau.ac.in Web Address: www.tnau.ac.in
07	Sanction Order Details	F. No.16(4)/2001 - AE - I/2004. Dt.1 st July 2004 of the ICAR, New Delhi
08	Name of the Programme Coordinator	Dr.M.Ramasubramanian
09	Total land area with the KVK in ha.	18.66

ii. Mandate

The overall mandate of the KVK is to develop and disseminate location specific technological modules at district level through Technology Assessment, Refinement and Demonstration and to act as Knowledge and Resource Centre for agriculture and its allied activities. The specific activities carry out to achieve this mandate are:

- Conducting on-farm testing to identify the location specificity of agricultural technologies under various farming systems
- Organizing frontline demonstrations to establish production potential of various crops and enterprises on the farmers' fields
- Organizing need based training to farmers for update their knowledge and skills in modern agricultural technologies related to technology assessment, refinement and demonstration, and training of extension personnel to orient them in the frontier areas of technology development
- Creating awareness about improved technologies to larger masses through appropriate extension programmes
- Production and supply of good quality seeds and planting materials, livestock, poultry and fisheries breeds and products and various bio-products to the farming community
- Work as resource and knowledge centre of agricultural technology for supporting initiatives of public, private and voluntary sector for improving the agricultural economy of the district

iii. Staff details (as on 30.01.2021)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Qualification	Pay Scale	Joining date	Nature of employment
1	Programme Coordinator	Dr.M.Ramasubramanian	Programme Coordinator	Agri. Extension	Ph.D.	131400-217100	07.05.2018	Permanent
2	Subject Matter Specialist (SMS)	Dr.A.Anuratha	Asst.Professor	Soil Science & Agri. Chemistry	Ph.D.	69800-205500	07.05.2018	Permanent
3	Subject Matter Specialist (SMS)	Dr. V.Radhakrishnan	Asst.Professor	Agri.Entomology	Ph.D	69800-205500	26.06.2020	Permanent
4	Subject Matter Specialist (SMS)	Dr.M.Sabapathi	Asst.Professor	Veterinary & Animal Science	Ph.D	69800-205500	07.08.2020	Permanent
5	Subject Matter Specialist (SMS)	Dr.S.Kamalasundari	Asst.Professor	Food Science & Nutrition	Ph.D	69800-205500	26.06.2020	Permanent
6	Subject Matter Specialist (SMS)	Dr.R.Jegadeesan	Asst.Professor	Horticulture	Ph.D	69800-205500	24.06.2020	Permanent
7	Subject Matter Specialist (SMS)	Dr.M.Selvamurugan	Asst.Professor	Environmental Science	Ph.D	69800-205500	25.06.2020	Permanent
8	Programme Assistant(Tech.)	Tmt. D. Reka	Programme Assistant (Tech)	Home Science	B.Sc.	35900-113500	04.06.2007	Permanent
9	Programme Assistant (Computer)	Tmt. R. Sakunthala	Programme Assistnat (C)	Computer Application	MCA	35900-113500	12.04.2017	Permanent
10	Farm Manager	Mr.D. Nakkiran	Farm Manager	Agriculture	B.Sc.	35900-113500	26.08.2013	Permanent
11	Assistant	Mrs.D.Deepa	Junior Assistant cum Typist	-	M.Com	19500-62000	18.07.2020	Permanent
12	Junior Assistant	Mrs.G.Rajathi	Junior Assistant cum Typist	-	B.A.B.Ed	19500-62000	20.07.2020	Permanent
13	Driver	Mr. Vincent paul	Supervisor	-	-	35400-112400	03.11.2013	Permanent
14	Driver	Th.T.Premkumar	Driver	-	-	35400-112400	05.08.2020	Permanent
15	Supporting staff	Th.M.Kumaran	PUSM	-	-	15700-50000	01.04.2009	Permanent
16	Supporting staff	Tmt.G.Baby	PUSM	-	-	15700-50000	17.08.2020	Permanent

Agenda Item No. 02

Composition of the Scientific Advisory Committee

S.No	Name	Designation	Address	Affiliation
1	Dr.N.Kumar	Vice Chancellor	Tamil Nadu Agricultural University, Coimbatore-3	Chairman
2	Dr. J.V.Prasad	Director (i/c)	ICAR-Agricultural Technology Application Research Institute (ATARI),CRIDA Campus, Hyderabad	Member
3	Dr.M.Jawaharlal	Director of Extension Education	Tamil Nadu Agricultural University,Coimbatore-3	Member
4	Dr.V.Ambethkar	Director	Tamil Nadu Rice Research Institute Aduthurai - 612 101,Thanjavur District	Member
5	Dr. S.Uma	Director	National Research Centre for Banana Thogamalai Road, Thayanur Post,Tiruchirapalli -2	Member
6	Dr.K.Arivoli	District Forest Officer	Collectorate Complex, Thiruvarur - 610 001	Member
7	Th.P.Sivakumar	Joint Director of Agriculture	Collectorate Complex, Thiruvarur - 610 001	Member
8	Dr. I.Dhanabalan	Joint Director of Animal Husbandry	Veterinary Hospital Campus, Nethaji road, Thiruvarur - 610 001	Member
9	Er.K.P.Regunathan	Executive Engineer(AED)	Department of Agricultural Engineering , Pavithramanickam, Kumbakonam Road, Thiruvarur- 610002	Member
10	Th. Viswanth Kanna	District Development Manager	NABARD, Tiruvarur 610 001	Member
11	Th.A.Venkatraman	Deputy Director of Horticulture	Collectorate Complex, Thiruvarur - 610 001	Member
12	Th.M.Lakshmikandhan	Deputy Director of Agriculture,	Agricultural Business and Marketing, Regulated Market campus,Thiruvarur	Member
13	Dr. M.Kathirchelvan	Associate Professor and Head	Farmers Training Centre, (TANUVAS) Kurunji Nagar, Vilamal, Tiruvarur – 610004	Member

14	Th.M.Ravichandran	General Manager	District Industrial Centre, Collectorate Complex Thiruvarur	Member
15	Th.A.Elilarasan	Lead District Manager	Indian Overseas Bank,Thiruvarur	Member
16	Th.R.Rajesh Kumar	Assistant Director of Fisheries	Room No. 210, Second floor,District Collectorate Office additional building,Opp. to District court,Thiruvarur	Member
17	Ms.C.Rengappa	Assistant Director of Sericulture	Regional office, Department of Sericulture No. 6, V.O.C Road, Near Central Bus stand Trichy	Member
18	Mrs. Rajeswari	District Social Welfare officer	Collectorate Complex, Thiruvarur - 610 001	Member
19	Mr. Chinnasamy	Farm Radio Reporter	All India Radio, (AIR) Near American Hospital Thiruchirapalli-1	Member
20	Mrs R.Saarumathi	Assistant Director of Agriculture	Anna silai , Thanjavur Road, Needamangalam.	Member
21	Th.S.Ganesh kamalakannan	Progressive farmer-1	S/o Th. Sathasivam. M Kothankudi, Arasavanankadu(Post) Kodavasal Taluk Thiruvarur District PIN 612 603	Member
22	Th.V.R.Gopalakrishnan	Progressive farmer- 2	S/o Th. Ramasamy No 10/13A, Rajan street, Vaduvur Thenpathi, Needamangalam Taluk Thiruvarur District PIN 614 019	Member
23	Tmt.M.Maharani	Women Farmer-1	W/o Th.P.K.Saminathan 59/B Mela kudiya street,Rishiyur, Needamangalam Taluk Thiruvarur District PIN 614 404	Member
24	Mrs.G.Latha	Women Farmer-2	W/o. Th.Gunasekaran 1, Karaimettutheru, Pullavarayan kudikadu (Post), Needamangalam (Tk),Thiruvarur (Dt). PIN 614013	Member

25	Mr.Paramasivam	Agri –entrepreneur	S/o Chidambaram Ovarkudi , Thiruthuraiipoondi (TK) Thiruvarur District Cell no.:9943384204	Member
26	Mrs.S.Mohanammal	Chair person of Women Self Help Group	W/o. Selvakumar Keezhapattu, Rayapuram post Needamangalam Tauk, Thiruvarur District PIN: 612 803	Member
27	Dr.M.Ramasubramanian	Programme Coordinator	ICAR Krishi Vigyan Kendra, Needamangalam,Thiruvarur District	Member

Agenda Item No. 03

Action Taken Report on the previous SAC meeting held on 07.03.2020

Sl.No	Recommendations & Proposer	Action taken	Specific constraints in taking if any
1	Farm Mechanization mela may be organized by the KVK Proposer : Director of Extension Education Tamil Nadu Agricultural University Coimbatore	<ul style="list-style-type: none"> • Farm Mechinery Mela has been organised at the premises of KVK, Needamangalam on 06.08.2020. • Demonstration of laser leveller and Tractor operated sprayer was conducted • Farm implements companies have exhibited machineries like Rice Transplanter, various types of Power Weeder, Harvester, Laser Leveller, Power tiller, Tractor, Shredder, Baler, Tractor operated sprayer and other implements. 	-

		<ul style="list-style-type: none"> • District Executive Officer of Tamilnadu Rural Transformation Project, Project Officer, Mahalir Thittam, ADAs and other line department officials have participated in the event • Hundred and Thirty four participants including farmers and Farm women took part in the event. 	
2	<p>Raising vegetable crops in the bunds of paddy field may be further disseminated through Front Line Demonstrations</p> <p>Proposer : Director of Extension Education Tamil Nadu Agricultural University Coimbatore-3</p>	<p>Front Line Demonstration on Bhendi hybrid (CO 4) as bund crop in paddy field of Thiruvarur district was conducted at 10 farmers field in Perambur and Vaduvur Sathanur, Vaduvur Melpathi (DFI) villages of Thiruvarur District</p>	
3	<p>Awareness should be created on mushroom cultivation and value added products through trainings</p> <p>Proposer : Director of Extension Education Tamil Nadu Agricultural University Coimbatore-3</p>	<p>Awareness created through</p> <ul style="list-style-type: none"> • Training on Processing, value addition and preservation techniques of mushroom was conducted at KVK on 22.12.2020. • Thirty six Mushroom growing farmers from Delta districts were participated. • Technology on Packaging technics, Dried mushroom, Mushroom preservation, Mushroom chapathi mix, Mushroom bonda mix, Mushroom soup mix and Mushroom pickle were delivered with live demonstration • Two paid training on Edible mushroom cultivation and spawn production was conducted at KVK Thiruvarur on 30.12.2020 and 05.02.2021 respectively. Technologies 	

		related to Different mushroom varieties and it's cultivation, spawn production, types of mushroom shed, decomposition of utilized bed spawn were delivered. Sixty one Farmers, rural youth, farm women, self help groups, students were participated and benefitted	
4	<p>Demonstration may be conducted for popularizing newly released Kaveri kalki Banana Variety in Thiruvarur district</p> <p>Proposer : Principal Scientist NRCB, Trichy</p>	<ul style="list-style-type: none"> • Demonstration of newly released Kaveri kalki Banana Variety in Thiruvarur district is conducted in 10 farmers field as Front Line Demonstrations in Inamkiliyur, Vidiyalkaruppur, Periakottai, Aandankoil, Neduvakottai , Aavoor, Nadupadugai villages of Thiruvarur district. The crop is in flag leaf stage • Two Off campus training on Integrated Crop Management in Banana was conducted for 53 farmers on 14.10.2020 and 28.10.2020 respectively at Aandankoil and Govinthagudi villages of Thiruvarur district. • In addition on campus training on ICM in Banana was conducted at KVK on 24.12.2020. Totally 63 farmers participated including FLD beneficiaries • Demo plot on Banana cafeteria is maintained at KVK premises for the benefits of trainees and visiting farmers 	-
5	<p>More number of Roof top garden trainings may be organized at KVK</p> <p>Proposer: Assistant Director of Horticulture, Mannargudi</p>	Roof top garden training was conducted at KVK on 11.09.2020 ,17.09.2020 and 24.12.2020. Totally 157 farmers benefitted	-

6	<p>Capacity building programmes may be organized for the FPOs in Thiruvarur District</p> <p>Proposer:AGM, NABARD, Thiruvarur</p>	<ul style="list-style-type: none"> • A NABARD Sponsored three days “Capacity Building Programme for Board of Directors of Farmer Producer Companies (FPCs) for sustainable functioning of FPCs” was organised at KVK, Needamangalam from 19.10.2020 to 21.10.2020. The event was organised in collaboration with The Grow Rich Foundation, Kumbakonam & Organi Farmers Federation, Thiruvarur. Twenty Five BODs and 5 CEOs of five FPCs took part in the programme. Respected Director of Extension Education, TNAU, Coimbatore, Dr. M.Jawaharlal Inaugurated the event through online and gave a resourceful lecture • Capacity Building programme of BOD on sustainable functioning of FPC was conducted on 17.10.2020 and thirty eight farmers participated 	-																																	
7	<p>Pre seasonal awareness /training programmes may be conducted at KVK</p> <p>Proposer : Associate Professor and Head,Farmers Training Centre, (TANUVAS), Vilamal, Tiruvarur</p>	<p>Nine number of Pre seasonal training was conducted by KVK as KVK on the Move in ten blocks of Thiruvarur district during COVID 19 period as detailed below</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Block</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>19.05.2020</td> <td>Valangaiman</td> <td>45</td> </tr> <tr> <td>29.05.2020</td> <td>Thiruthuraiipoondi</td> <td>54</td> </tr> <tr> <td>06.06.2020</td> <td>Koradacherry</td> <td>28</td> </tr> <tr> <td>18.06.2020</td> <td>Kodavasal</td> <td>10</td> </tr> <tr> <td>19.06.2020</td> <td>Kottur</td> <td>52</td> </tr> <tr> <td>26.08.2020</td> <td>Nannilam</td> <td>44</td> </tr> <tr> <td>02.09.2020</td> <td>Thiruvarur</td> <td>21</td> </tr> <tr> <td>10.09.2020</td> <td>Mannagudi</td> <td>24</td> </tr> <tr> <td>15.10.2020</td> <td>Needamangalam</td> <td>26</td> </tr> <tr> <td></td> <td>Total</td> <td>304</td> </tr> </tbody> </table> <p>In addition 8 pre seasonal trainings on System of Rice Intensification,Direct Sown Rice, Integrated Pest and Disease Management,Integrated Crop Management for Rice, Cotton, Pulses and Vegetables were conducted for 315 farmers</p>	Date	Block	No of participants	19.05.2020	Valangaiman	45	29.05.2020	Thiruthuraiipoondi	54	06.06.2020	Koradacherry	28	18.06.2020	Kodavasal	10	19.06.2020	Kottur	52	26.08.2020	Nannilam	44	02.09.2020	Thiruvarur	21	10.09.2020	Mannagudi	24	15.10.2020	Needamangalam	26		Total	304	-
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8	<p>More number of trainings and demonstrations may be conducted for animal husbandry components namely cattle, goat, poultry , IFS, fodder crops and other new specific technologies suitable for Thiruvarur District</p> <p>Proposer : Dr. M.A. Johnson Charles Assistant Director of Animal Husbandry</p>	<p><u>Trainings:</u></p> <ul style="list-style-type: none"> • Ten numbers of trainings on animal husbandry components were conducted for 665 farmers as detailed below <table border="1"> <thead> <tr> <th>Date</th> <th>Title</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>16.07.2020</td> <td>Advanced techniques in Back yard Poultry - Online</td> <td>21</td> </tr> <tr> <td>03.09.2020</td> <td>Commercial Goat Farming -Online</td> <td>68</td> </tr> <tr> <td>18.09.2020</td> <td>Commercial Dairy cattle management</td> <td>57</td> </tr> <tr> <td>22.10.2020</td> <td>Commercial Desi Chicken Management (Paid training)</td> <td>37</td> </tr> <tr> <td>05.11.2020</td> <td>Commercial Cattle Management at Perumangalam</td> <td>20</td> </tr> <tr> <td>09.11.2020</td> <td>Integrated Farming System - National Innovations in Climate Resilient Agriculture (NICRA) scheme</td> <td>35</td> </tr> <tr> <td>17.12.2020</td> <td>Paid training on commercial goat management</td> <td>36</td> </tr> <tr> <td>19.12.2020</td> <td>Fertility management and clean milk production in dairy cows - National Innovations in Climate Resilient Agriculture (NICRA) scheme</td> <td>25</td> </tr> <tr> <td>05.01.2021</td> <td>Improved Management Strategies on Backyard Poultry - National Innovations in Climate Resilient Agriculture (NICRA) scheme</td> <td>40</td> </tr> <tr> <td>21.01.2021</td> <td>Commercial Desi Chicken Management-Sikkapattu</td> <td>22</td> </tr> <tr> <td></td> <td>Total</td> <td>361</td> </tr> </tbody> </table>	Date	Title	No of participants	16.07.2020	Advanced techniques in Back yard Poultry - Online	21	03.09.2020	Commercial Goat Farming -Online	68	18.09.2020	Commercial Dairy cattle management	57	22.10.2020	Commercial Desi Chicken Management (Paid training)	37	05.11.2020	Commercial Cattle Management at Perumangalam	20	09.11.2020	Integrated Farming System - National Innovations in Climate Resilient Agriculture (NICRA) scheme	35	17.12.2020	Paid training on commercial goat management	36	19.12.2020	Fertility management and clean milk production in dairy cows - National Innovations in Climate Resilient Agriculture (NICRA) scheme	25	05.01.2021	Improved Management Strategies on Backyard Poultry - National Innovations in Climate Resilient Agriculture (NICRA) scheme	40	21.01.2021	Commercial Desi Chicken Management-Sikkapattu	22		Total	361	-
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		<ul style="list-style-type: none"> • One more programme on KVK on the Move (Reaching out to Farmers during Covid19) was conducted at 10 blocks. Totally 304 farmers were participated <p>Demonstration: The following Front Line Demonstrations are conducted at 50 farmers fields in Thiruvarur District</p> <ul style="list-style-type: none"> • Demonstration of 10 cent model fodder plot • Demonstration of rumen bypass fat to meet out the early energy deficiency in CBJ and CBHF • Popularization of TANUVAS Aseel under backyard condition • Demonstration of Fish silage as feed to backyard poultry farmers • Demonstration of intensive culture of Jayanthi Rohu 	
9	<p>Training and demo on value added products in fish may be conducted</p> <p>Proposer : Th.M.Chandramani Inspector of fisheries, Thiruvarur</p>	<p>NABARD CAT programme on Skilling the farmers on improved fisheries technologies for sustained income was conducted at KVK during 20.01.2021 to 22.01.2021. Totally 27 farmers benefitted</p>	-
10	<p>Low cost incubator may be popularized in Thiruvarur District</p> <p>Proposer : Th.M.Raja Agriculture Officer Agricultural Business and Marketing, Thiruvarur</p>	<ul style="list-style-type: none"> • Low cost incubator is demonstrated and popularized among the farmers in Rayapuram and Keelapattu villages under NICRA scheme. • Low cost incubator available in KVK Thiruvarur was demonstrated to the visiting farmers and trainees 	-

11	<p>Awareness may be created among the farmers on the benefits of minor millets consumption by conducting more number of trainings on minor millets</p> <p>Proposer : Tmt.M.Maharani Progressive farmer- Women Farmer</p>	<p>Eight number of Trainings on the benefits of minor millets consumption was conducted for 263 farmers/farm women as detailed below</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Title/Place</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>22.06.2020</td> <td>Integrated Crop Management in Millets - Thirukalampur</td> <td>29</td> </tr> <tr> <td>04.08.2020</td> <td>Value addition on Ready to use Multigrains mixes for Business oppurtunity - Online</td> <td>24</td> </tr> <tr> <td>18.08.2020</td> <td>Demonstration on Ready to use Multi grains mixes -Edamelaiyur</td> <td>20</td> </tr> <tr> <td>05.11.2020</td> <td>Integrated crop management in millets and value addition -Koradacheri</td> <td>40</td> </tr> <tr> <td>11.11.2020</td> <td>Integrated crop management in millets and value addition -Utthirangudi</td> <td>40</td> </tr> <tr> <td>19.11.2020</td> <td>Integrated crop management in millets and value addition -Ettialur</td> <td>40</td> </tr> <tr> <td>27.11.2020</td> <td>Integrated crop management in millets and value addition -Needamangalam</td> <td>40</td> </tr> <tr> <td>29.12.2020</td> <td>Buyer seller meet- Needamangalam</td> <td>30</td> </tr> <tr> <td></td> <td>Total</td> <td>263</td> </tr> </tbody> </table>	Date	Title/Place	No of participants	22.06.2020	Integrated Crop Management in Millets - Thirukalampur	29	04.08.2020	Value addition on Ready to use Multigrains mixes for Business oppurtunity - Online	24	18.08.2020	Demonstration on Ready to use Multi grains mixes -Edamelaiyur	20	05.11.2020	Integrated crop management in millets and value addition -Koradacheri	40	11.11.2020	Integrated crop management in millets and value addition -Utthirangudi	40	19.11.2020	Integrated crop management in millets and value addition -Ettialur	40	27.11.2020	Integrated crop management in millets and value addition -Needamangalam	40	29.12.2020	Buyer seller meet- Needamangalam	30		Total	263	-
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12	<p>Demonstration on wetland Laser leveller may be organized at KVK</p> <p>Proposer : Er.Mohamed Bahrutheen PA to Executive Engineer(AED), Thiruvarur</p>	<p>Demonstration on Wetland Laser Leveller was conducted at KVK on 23.10.2020. Tewnty six farmers benefitted</p>	-																														

13	<p>Mulberry may be cultivated at KVK farm for the benefit of visiting farmers</p> <p>Proposer : Tmt.S.Shanthi Junior Inspector of Sericulture</p>	<p>Mulberry was cultivated at KVK for the benefits of visiting farmers and trainees. In addition, on campus training on Seri culture technology was conducted for 32 farmers at KVK on 16.09.2020</p>	-
14	<p>New technologies on cultivation of tree crops suitable for Thiruvarur District may be disseminated through trainings and awareness programme</p> <p>Proposer : Th.M.Periasami Forester District Forest office, Thiruvarur</p>	<ul style="list-style-type: none"> • Awareness programme and tree cultivation techniques was conducted at Rishiyur on 22.09.2020 in collaboration with Green Needa, Athangudi, Anumanthapuram, Rishiyur and perambur of Needamangalam block. Th.A.K.Kamal kishore, I.A.S Additional Collector, Project Director, DRDA inaugurated the programme. The Programme Coordinator of KVK delivered special talk on Tree cultivation techniques and the importance of popularization of Palmyra among the farmers. During the occasion, tree seedlings were planted by the staff and volunteers on the road side of villages. • On campus training on Tree cultivation technologies was conducted at KVK on 04.02.2021. Thirty farmers participated 	-

(a) Agricultural scenario of the district

i. Major farming systems/enterprises: Agriculture, Horticulture, Animal Husbandry, Fisheries, Agro Enterprises etc.

The rice cropping season of this district is divided into Kurvai (Dry), Samba, Thaladi (Wet) and Summer. Rice is the major crop during Kuruvai and Thaladi seasons followed by Pulses (Blackgram and Greengram). Cotton, groundnut, coconut, vegetables and sugarcane are the other crops grown depending upon the soil types. The area under rice cultivation is only in wetland category; whereas Pulses and Cotton are cultivated as rice fallow crops. The other crops are being cultivated in areas of assured water supply as pure crops. Irrigation is mainly through 13 canals of Cauvery, Vennar and Grand Anaicut system. The gross area irrigated by these canals is 1,83,610 ha.

The following are the crop rotation is being followed in Thiruvarur district.

1. Rice – Rice – Rice
2. Rice – Rice – Pulses (Blackgram & Greengram) / Gingelly
3. Rice – Rice – Gingelly /Groundnut
4. Fallow – Rice – Cotton
5. Sugarcane
6. Pulses / Gingelly – Rice – Pulses (Black gram & Green gram)

Alternate cropping against rice is only possible during Kuruvai season (dry). Pulses, Maize, Gingelly and Groundnut are cultivated as alternate crops. As the soil is predominantly heavy clay type, Rice is the only crop which thrives well in case of inundation without much difficulty especially during North East monsoon period. Annual rainfall is **1230 mm** (53 % NEM & 30 % SWM).

ii. Details of problems and thrust areas (of previous year in the following format)

2019-20

S. No	Names of the Block and Operational Village	Major Crops and Enterprises	Major problems identified	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented*
1	Kottur/Keluvathur Mannargudi/Ullikottai. Mahadevapattinam	Rice, Pulses, Cotton, Livestock, Backyard poultry	<ul style="list-style-type: none"> • Depletion of ground water level • Unawareness of alternate crop for rice during late release of Cauvery water 	Varietal Introduction	OFT- Assessment of suitable alternate crops for Rice in Kuruvai (Kharif) season
2	Needamangalam/ Devangudi	Rice, Pulses, Cotton, Fisheries, Livestock, Backyard poultry	<ul style="list-style-type: none"> • Yield reduction due to severe weed density • Weeds compete with crops for Moisture, Nutrients and sunlight etc., 	Weed Management	OFT- Assessment of suitable weed management practices for Direct Seeded Rice
3	Kottur and Mannarkudi	Rice, Pulses, Maize, Livestock, Backyard poultry	Yield reduction due to Fall army worm <i>Spodoptera frugiperada</i> incidence	Integrated Pest Management	OFT- Assessment of management modules against Fall Army Worm in Maize
4	Needamangalam/ Munnavaikottai	Rice, Pulses, Livestock, Backyard poultry	The Mobile apps were reported to impact upon the uptake of technologies by farmers, but field level data to substantiate the utility of information given through mobile apps by the farmers is not available. Hence, this OFT would analyse the Effectiveness of two important mobile apps	Information Technology	OFT- Assessment of Mobile Apps for Effective Technology Delivery

5	Needamangalam/ Rayapuram, Nagar	Rice, Pulses, Livestock, Backyard poultry	<ul style="list-style-type: none"> • Native chicken with low egg production • Increasing demand among the farmers for dual purpose chicken. 	Evaluation of Breeds	OFT- Assessment of performance of dual purpose crossbreed chicken varieties under backyard system of rearing.
6	Needamangalam /Kilariyam	Rice, Pulses, Millets	<ul style="list-style-type: none"> • High incidence of non communicable diseases 	Post Harvest Technology / Value addition	OFT- Alternative natural sweetener for bakery products (Cookies)
7	Mannargudi/Koopaachi kottai , Kattakudi	Rice, Pulses, Coconut	<ul style="list-style-type: none"> • Nematode incidence reduces the tuberose yield upto 40% • Invasive insect pest RSW reduces the coconut yield 	Integrated Pest Management	OFT- Assessment of management modules against Rugose Whitefly in Coconut
8	Needamangalam /Vaduvur-Melpathi, Thenpathi, Vadapathi, Needamangalam, Kalacheri, Keluvathur	Rice, Pulses, Millets	<ul style="list-style-type: none"> • Lodging of existing variety (30%) • Incidence of leaf folder, stem borer ,blast and sheath rot disease (32%) 	Varietal Introduction	FLD-Demonstration of Newly released Non lodging short duration Paddy variety ADT 53 with ICM in Thiruvarur District
9	Needamangalam/ Kaalacheri, Vaduvur Thenpathi,Periakottai	Rice, Pulses, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • The yield potential of the ruling prominent varieties like BPT got reduced • The ruling varieties in the region are susceptible to pest and diseases • Cost of cultivation especially fertilizers and plant protection cost have escalated for the ruling varieties 	Varietal Introduction	FLD-Demonstration of Co52 paddy variety (MGR 100) for Thaladi (Rabi)season

10	Thiruthuraipoondi/ Thiruvalanchuli, Kunnoor	Rice, Pulses, Cotton	<ul style="list-style-type: none"> • Yield reduction due to Alkaline nature of soil • Non adoption of suitable management practices • Use of salt water for irrigation 	Integrated Crop Management	FLD- Demonstration of ICM for Salt affected soils of Thiruvarur District
11	Kodavasal/Sarabojirajapuram, Koilpatthu, Vadugakudi, Vilagam	Rice, Pulses	<ul style="list-style-type: none"> • Low yield in existing practices • High demand for organically grown traditional rice variety 	Varietal Introduction	FLD- Demonstration of Traditional rice variety with Eco friendly management
12	Needamangalam/ Rayapuram Vaduvur Thenpathi	Rice, Pulses	<ul style="list-style-type: none"> • Increased cost of cultivation in operations namely transplanting and weeding done by manually • Limited availability of labour force for carrying out field level operations • Untimely operations resulting in yield reduction 	Farm Mechanization	FLD- Demonstration of complete mechanization in rice cultivation
13	Needamangalam/ Pullavarayan kudikkadu	Rice, Pulses, Cotton, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • Non availability of improved varieties under rice fallow ecosystem • Non adoption of ICM technology 	Varietal Introduction	FLD- Introduction of Rice Fallow blackgram variety ADT 6 in Thiruvarur District
14	Needamangalam/ Rayapuram, Vaduvur puthukottai, Keelapattu Manakanthankotagam Mahadevapattinam	Rice, Pulses, Cotton, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • Lack of awareness on hybrid • More use of chemical insecticides for pest management 	Hybrid Introduction	FLD- Demonstration of bhendi hybrid as border/bund crop in paddy field of Thiruvarur District

15	Mannargudi/ Melanagai	Vegetables	<ul style="list-style-type: none"> • Shoot and Fruit borer is the major problem in Brinjal 	Integrated Pest Management	FLD- Eco friendly management of shoot and fruit borer in brinjal
16	Koradacheri block	Rice,Cotton	<ul style="list-style-type: none"> • Drought during most of the growing stages. Hence, severe mealy bug incidence was recorded 	Integrated Pest Management	FLD- Demonstration of ecofriendly methods for the management of mealy bug in cotton
17	Needamangalam/ Rayapuram,Keelapattu, Vaduvur Sathanur, Vaduvur Thenpathi Mahadevapattinam Mannargudi/ Melathirupalakudi	Rice, Pulses, Cotton, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • Non adoption of Pulse as fodder crop • Using traditional varieties 	Varietal Introduction	FLD- Demonstration of fodder cowpea variety Co 9 in Thiruvarur District
18	Needamangalam/ Kalacheri, Poovanur, Keelapattu, Rayapuram Kottur/Keluvathur	Rice, Pulses, Cotton	Inconvenience faced by the farmers during harvesting of bhendi	Drudgery reduction	FLD- Demonstration of Bhendi ring cutter
19	Valangaiman/Aavoor,Vala thakudi, Needamangalam/ Nagar,Ayyampettai Koradacheri/Mepallam Mannargudi/Mannargudi	Rice, Pulses, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • Limited use of green fodder • Minimal water availability during summer 	Varietal Introduction	FLD - Demonstration on CoFS-31 fodder crop
20	Needamanagalam/ Needamanagalam, Mannargudi/ Mannargudi Thiruvarur/Vilamal	Rice, Pulses, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • Ectoparasites – ticks and fleas • Roughened skin • Blood parasites • Reduced prodcutcion 	Disease Management	FLD - Demonstration of ect endo parasitic control in goats

21	Needamanagalam/ Keelapattu Needamanagalam/ Vaduvur Kottur/Keluvathur, Valangaiman/Inamkiliyur	Rice, Pulses, Cotton, Livestock, Fisheries, Backyard poultry	<ul style="list-style-type: none"> • Fish yield reduction due to improper feed supplement • Low income generation • Higher cost for fish feeds 	Integrated Farming System	FLD- Demonstration of khaki campbell and indian runner duck in wetland IFS
22	Mannargudi/Koopachikotai, Needamanagalam/ Vaduvur	Rice, Pulses, Livestock, Fisheries, Backyard poultry	<p>Access</p> <ul style="list-style-type: none"> • Often the farmers face the problem of inaccessibility of Extension workers and Scientists resulted in lack of efficiency in Technology Transfer <p>Time</p> <ul style="list-style-type: none"> • Many times the technologies are given not in line with the timing of agricultural operations which will not be useful for farmers <p>Cost</p> <ul style="list-style-type: none"> • Significant Cost involved in meeting of scientists/Extension workers in their workplace amidst busy agricultural operations 	Information Technology	FLD- Demonstrating the Efficiency of Whatsapp in dissemination of technologies related to Rice Cultivation

23	Needamangalam/ Chettisathiram Pullavarayan kudikadu	Rice, Pulses, Vegetables & Greens ,	<ul style="list-style-type: none"> • Demand for organic greens and vegetables • Lack of knowledge on macro and micro nutrients in vegetables and greens • Low per capita consumption of vegetables and greens 	Nutritional garden	FLD- Demonstration of Nutritional garden in Anganwadis of Thiruvarur district
24	Mannargudi/Mannargudi Melathirumathikunnam Kotthamangalam Chozhavithuapuram Manjanavadi Sirangudi	Mushroom	<ul style="list-style-type: none"> • Highly perishable of mushroom • Seasonal 	Value addition	FLD- Demonstration on ready to eat and ready to cook mushroom products

b) Major outcome of Technology Assessment and Refinement (in bullet form only)

Technology Assessment

1. Assessment of suitable alternate crops for Rice in Kuruvai (Kharif) season

- On farm trial results revealed that cultivation of Black gram VBN 8 variety recorded more plant height (24 cm), less incidence of YMV, higher pod yield (730 kg/ha), less water consumption (300 mm) and higher farm net income (Rs.43200/ha) as compared to Maize(COMH 6) and Paddy (CO 51) varieties.
- Higher water consumption (1140mm) was observed in local check variety (CO 51 paddy variety).
- Economics of the study revealed that cultivation of Black gram (VBN 8) variety registered higher net returns (Rs.43200/ha) and benefit cost ratio (2.44) followed by Maize and local check variety.
- The study showed that cultivation of Black gram (VBN 8) variety performed well under irrigated condition during kuruvai season and consumed less water, recorded higher yield and high net return.

2. Assessment of suitable weed management practices for Direct Seeded Rice

- Among the three weed management practices, the pre emergence application of pretilachlor @ 0.45 ha + hand weeding on 35 DAS recorded higher yield of rice (61.47 quintals/ha) with the highest net return of (Rs.57602 /ha)
- Growers expressed that the pre emergence application of pretilachlor @ 0.45 ha + hand weeding on 35 DAS contributed higher weed control efficiency.

3. Assessment of management modules against Fall Army Worm in Maize

Not conducted - Area under maize is not available in the district

4. Assessment of Mobile Apps for Effective Technology Delivery

Rice Expert system of TNAU has been very useful and it can be further popularized

5. Assessment of performance of dual purpose crossbred chicken varieties under backyard system of rearing

- Two breeds viz., TANUVAS Aseel and Nicobari developed by TANUVAS were compared with local breed for their performance. The weight gain and disease resistant were excellent in TANUVAS Aseel compared to Nicobari and Local breed. TANUVAS Aseel achieved 980g Avg weight by 120 days while Nicobari achieves Avg 740g, which is lesser than native breeds.
- Disease resistant as hypothesized for Nicobari is not well expressed as there is frequent mortality observed in Nicobari birds because of subclinical Ranikhet and complex bacterial diseases.
- TANUVAS Aseel well adapted to grain scrap feeding while Nicobari requires commercial feed for better output.

Alternative natural sweetener for bakery products (Cookies)

Sensory Evaluation:

- The sensory characteristics such as colour and appearance, flavor, texture, taste and overall acceptability of the millet flour cookies was evaluated. The ragi, samai, thenai and kuthiraivali cookies were found highly acceptable in terms of sensory attributes even beyond 65 days of storage at ambient conditions. Ragi, samai and kuthiraivali, thenai flour with palm sugar cookies was highly acceptable compared to other treatments.

Shelf life:

Shelf life period of millet cookies was between 80 (TO1), 75 (TO2), 70 (TO3), 65 (TO4) and 60 (TO5) days.

6. Assessment of management modules against Rugose Whitefly in Coconut

- The infestation of RSW in demo plot was ranging from 0 to 0.82 whereas in control it was 1.86-2.48 but the sooty mould encrustation was 2-3 fronds and 4-6 fronds in demo and control plots respectively
- The infestation index was 1.24 in demo plot whereas in control it was 1.92.
- *Encarsia* parasitization was 36% in demo plot whereas in control it was 8%.

c) Major outcome of Frontline Demonstrations (in bullet form)

- Target and achievement in terms of area covered and number of farmers

Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement
34	34	155	155

1. Demonstration of Newly released Non lodging short duration Paddy variety ADT 53 with ICM in Thiruvarur District

- Short duration variety ADT 53 recorded the higher yield (5640 kg/ha) compared to the farmers' practices variety (4840 kg/ha). The increase in the demonstration yield over farmer's practices was 14.18 per cent.
- Application of Silica Solubilizing Bacteria @ 12.5 kg/ha and K Solubilizing Bacteria @ 12.5 Kg/ha along with Soil test based fertilizer application in rice gave higher net return of Rs. 50,240/ha as compared to farmers' practices. The benefit/cost ratio of ADT 53 rice under improved technologies was 2.26 as compared to 1.94 under farmers' practices

2. Demonstration of CO 52 paddy variety (MGR 100) for Thaladi (Rabi) season

- An average yield of 53 q/ha recorded in the demo plot and 44 q/ha was obtained in the control plot of conventional varieties
- Saving of Rs.3800/acre/farmer due to reduction in application of inorganic inputs
- 21 % higher yield than conventional varieties BPT & TKM 13
- Non Lodging compared to conventional varieties

3.Demonstration of ICM in Salt affected soils of Thiruvarur District

- The paddy variety CSR 36 registered an average yield of 49.60 q/ha as compared to BPT5204 (41.2 q/ha).
- Gross and net returns were Rs 79,360/- and Rs 39,360/-ha, respectively by cultivating CSR 36 as against Rs 65,920/-and Rs.25,920/- ha in the check variety. (BPT5204)
- The BCR also higher in CSR 36 with 1.98

4.Demonstration of Traditional rice variety with Eco friendly management

- The average yield of 37.20 q/ha was recorded with net return of Rs. 48000/- in demo plot and comparatively average yield of 55.80 q/ha with net return of Rs. 36780/- was recorded in control.
- The BCR also higher in demo plot with 2.07 whereas in control it was 1.70.

5.Demonstration of complete mechanization in rice cultivation

By adopting complete mechanization labour utilization was reduced to 68%. A sum of Rs 47000 /- has obtained from the demonstration plot as net income

6.Introduction of Rice Fallow blackgram variety ADT 6 in Thiruvarur District

- The average yield of 7.2 q/ha was recorded with net return of Rs. 43100/- in demo plot and comparatively average yield of 5.5 q/ha with net return of Rs. 29000/- was recorded in control.
- The BCR also higher in demo plot with 2.99 whereas in control it was 2.41

7.Demonstration of bhendi hybrid as border/bund crop in paddy field of Thiruvarur District

- Adoption of bhendi as border/bund crop in paddy recorded 1330 kg of bhendi fruit from the bunds of one hectare of paddy field.
- It bears 27 bhendi fruit from single plant starting from 38 days after sowing to maturity stage.
- It gives totally 19 harvest. From single harvest an average of 70 kg of bhendi fruit is harvested from the bunds of one hectare of paddy field.
- Benefit cost ratio is 1:4.45

8.Eco friendly management of shoot and fruit borer in brinjal

The reduction in incidence of shoot and fruit borer in brinjal was 36.84% in demo plot where as it was 21.15%.

Demonstration of ecofriendly methods for the management of mealy bug in cotton

- The Average yield in demo plot was **40.10q/ha** whereas in control it was 33.73q/ha. The yield increase in demo over control was 18.89%.
- The net profit earned in demo was **Rs.150680/-** and control plot Rs. 116955/-.
- The BCR of demo plot was **2.84** and control plot 2.49

Demonstration of fodder cowpea variety CO 9 in Thiruvarur District

- Higher green fodder yield was achieved in shorter period within 50 days after sowing.
- Plant height was 137 cm, no. of branches / plant is 4 and no. of leaves / plant is 16.

- High green fodder yield 21.78 t/ha was recorded.
- Less than 5% wastage of green fodder due to high palatability.

Demonstration of Bhendi ring cutter

- By the use of ring cutter for harvesting bhendi, the percentage of labour saving was found.
- Similarly the saving in cost of cultivation was to the tune of 50 % when compared to hand picking method using labours

Demonstration on COFS-31 fodder crop

- Fodder scarcity is addressed by this FLD. All the needy farmers cultivated this crop and utilized for their goat and cows. This cropping practice became the initiation of animal husbandry component for two FLD beneficiaries.
- Green Fodder yield was 70 tonnes (192 t/ha/year in 6-7 harvests) per acre

Demonstration of ect endo parasitic control in goats

- Farmers were equipped for the control of deworming and tick control. The health status and weight gain of kids improved because of both ect endo parasitic control.
- Fleas recurrence was observed in 3 months on post flumethrin application. Hence the beneficiaries were advised for delicing four times a year
- Cyclical use of dewormer coupled with training on dose calculation based on body weight produced an excellent outcome

Demonstrating the Efficiency of Whatsapp in dissemination of technologies related to Rice Cultivation

- Mean Efficiency Index (Sum total of Content adequacy, Understandability and Interactivity) was found to be 76.30 (Maximum 100) in test group using whatsapp for receiving information about rice cultivation
- Mean adoption of technologies was found to be 7.10 out of 10 technologies disseminated through whatsapp in test group
- Mean cost saved due to adoption of technologies especially purchase of inputs was Rs.1325 was recorded among farmers in test group who have received whatsapp information

Demonstration of Nutritional garden in Anganwadis in Thiruvarur district

- Brinjal, bhendi, lab lab, chilly, cluster bean, tomato, annual moringa, bottle gourd, ash gourd, snake gourd, pumpkin, bitter gourd, amaranthus, sirukeerai, paruppu keerai seeds were planted in Anganwadi.
- Plants are under vegetative stage and being distributed to beneficiaries

Demonstration on ready to eat and ready to cook mushroom products

- Mushroom value added products prepared through demonstration and training.
- Soup mix, pickle, gravy mix, pulav, bajji and cutlet were prepared and sensory wise evaluated.

d) Details of Training Programmes conducted

d) Details of Training Programmes conducted

2019-20

Category	Major thematic areas covered	No. of Courses		Duration (days)	No. of Participant			
		T	A		Men		Women	
					T	A	T	A
Farmers and farm women	Crop Production, Horticulture, Livestock Production and Management, Home Science / Women empowerment, Agril. Engineering, Plant Protection, Capacity Building and Group Dynamics	40	41	1	1100	1220	450	472
Rural youth	Protected cultivation of vegetable crops, Integrated farming, Seed production, Vermiculture, Mushroom Production	10	10	1	250	257	100	127
Extension personnel	Productivity enhancement in field crops, Protected cultivation technology, maintenance of farm machinery and implements	14	15	1	400	517	105	135
Sponsored programmes *	Increasing production and productivity of crops. Commercial production of vegetables, Soil health and fertility management, Processing and value addition, Methods of protective cultivation	10	11	1	200	213	100	118
Vocational programmes	Integrated crop management, Value addition, Sheep and goat rearing, Poultry farming, Seed production	4	4	2	25	25	105	107

2020-21 (as on 31.01.2021)

Category	Major thematic areas covered	No. of Courses		Duration (days)	No. of Participant			
		T	A		Men		Women	
					T	A	T	A
Farmers and farm women (including schemes)	Crop Production, Horticulture, Livestock Production and Management, Home Science / Women empowerment, Agril. Engineering, Plant Protection, Capacity Building and Group Dynamics	39	50	1	1360	1297	500	515
Rural youth	Protected cultivation of vegetable crops, Integrated farming, Seed production, Vermiculture, Mushroom Production	11	12	1	400	287	180	120
Extension personnel (Including Monthly Zonal)	Productivity enhancement in field crops, Protected cultivation technology, maintenance of farm machinery and implements	9	4	1	150	34	150	133
Sponsored programmes *	Increasing production and productivity of crops. Commercial production of vegetables, Soil health and fertility management, Processing and value addition, Methods of protective cultivation	7	30	1	200	937	160	263
Vocational programmes	Integrated crop management, Value addition, Sheep and goat rearing, Poultry farming, Seed production	7	3	3	110	60	100	49

e) Extension Programmes conducted

2019-20

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total
Advisory Services	617	2841	107	2948
Diagnostic visits	162	595	24	619
Field Day	20	320	11	331
Group discussions	16	300	2	302
KisanGhoshi	2	917	12	929
Film Show	88	3283	34	3317
Self -help groups	6	284	0	284
KisanMela	5	1710	15	1725
Exhibition	11	12518	37	12555
Scientists' visit to farmers field	127	1035	33	1068
Plant/animal health camps	9	3215	20	3235
Farmers' seminar/workshop	5	560	25	585
Method Demonstrations	94	3374	21	3395
Celebration of important days	7	368	9	377
Special day celebration	4	447	5	452
Exposure visits	3	90	2	92
Awareness programmes	4	474	16	490
Swatcha activities	17	421	0	421
Total	1197	32752	373	33125

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	6
Extension Literature	19
News paper coverage	302
Popular articles	17
Radio Talks	24
TV Talks	3
Animal health camps (Number of animals treated)	50
Others (Bi Monthly Newsletters)	1
Farmers visit to KVK	928
Lectures delivered as resource person	38
Research Articles	9
Success stories	4
Total	1401

2020-21 (As on 31.01.2021)

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total participants
Advisory Services	258	717	14	731
Diagnostic visits	87	435	52	487
Field Day	15	334	17	351
Group discussions	22	554	-	554
Film Show	62	1882	40	1922
Self –help groups	4	120	-	120
Kisan Mela	2	202	8	210
Exhibition	7	420	12	432
Scientists' visit to farmers field	92	85	7	92
Method Demonstrations	55	1710	12	1722
Celebration of important days	5	158	6	164
Special day celebration	4	134	5	139
Exposure visits	5	120	5	125
Awareness programmes	7	152	14	166
Lecture delivered	32	1028	10	1038
Total	657	8051	202	8253

Details of other extension programmes

Particulars	Number
Extension Literature	6
News paper coverage	192
Popular articles	10
Radio Talks	10
TV Talks	2
Total	220

f) Production and supply of technology products:

2019-20

Category	Item	Target	Achievement	No.of farmers	Value (Rs.)
Seed Materials – Varieties (Quintal)	Rice-CR 1009 Sub -1	300	319	138	852812
Planting Materials – Varieties (Number)	Planting materials- Super nappier cuttings	3000	27851	32	33421
Livestock Materials (Number)	Goat- Boer/Telichery cross bucks	10	5	5	31500
Bio Products (kg)	Vermicompost	3000	3400	128	34000
	Azolla	500	54	26	2700
	Pseudomonas	3000	1732	465	290976

2020-21

Category	Item	Target	Achievement	No.of farmers	Value (Rs.)
Seed Materials – Varieties (Quintal)	Rice-CR 1009 Sub -1	300	156 (+120)	112	435960
Planting Materials – Varieties (Number)	Planting materials- Super nappier cuttings	100000	129075	126	154890
Livestock Materials (Number)	Goat- Boer/ Telichery cross bucks	20	7	7	40000
Bio Products (kg)	Vermicompost	2000	3917	62	47004
	Azolla	500	55	46	2750
	Composted Coirpith	1000	2108	18	25296
	*Pseudomonas	3000	290	36	48720

*** As per the university guidelines the production of Pseudomonas has been stopped from June 2021 onwards**

g) Convergence and linkages (Specify the activities & outcomes):

S.No	Name of the organization	Nature of linkage	Outcome
1	NABARD	Participation in Meeting and conduct of Training on crop production and precision technology of Agricultural and allied sectors.	Wide spread of schemes which are implemented by NABARD
2	SPGF	FLD on millets and its value addition	Popularization of value addition of millets
3	Department of Agriculture	Monthly Zonal Workshop, Field survey , Diagnostic Visit, Joint implementation, Participation in Meeting and conduct of Training on crop production and Protection technologies of mandatory crops of Agricultural crops.	<ul style="list-style-type: none"> • Popularization of new varieties and technology. • Timely pest and disease management.
4	Department of Horticulture	Field survey, Diagnostic Visit, Joint implementation, Participation in Meeting and conduct of Training on crop production and Protection technologies of Horticultural crops.	<ul style="list-style-type: none"> • Popularization of new varieties and technology and related to horticulture. • Timely management of pest and disease.
5	Department of Agricultural Engineering	Participation in Meeting and conduct of Training on crop production and precision technology of Agricultural and Horticultural crops.	Department of AED officials delivered their scheme details on Agricultural Engineering.
6	Department of Animal Husbandry	Field survey, Diagnostic Visit, Joint implementation, Participation in Meeting and conduct of Training on crop production and Protection technologies of Cattle, Goat and Poultry.	Department of Animal Husbandry officials delivered their scheme details on trainings
7	Department of Fishery	Field survey, Diagnostic Visit, Joint implementation, Participation in Meeting and conduct of Training on Fishery technology.	Department of Fishery officials delivered their scheme details on trainings conducted by ICAR - KVK
8	Department of Forestry	Field survey, Diagnostic Visit, Joint implementation, Participation in Meeting and conduct of Training on trees	Department of Forestry officials delivered their scheme details on trainings and special programmes

9	Department of Sericulture	Field survey, Diagnostic Visit, Participation in Meeting and conduct of Training on mulberry and silkworm.	Department of Sericulture officials delivered their scheme details on trainings and special programmes
10	Department of Agricultural Marketing and Agriculture Business	Participation in Meeting and conduct of Training on regulated market committee and storage.	Department of Agricultural Marketing officials delivered their scheme details on trainings and special programmes
11	District Administration –Thiruvarur	Technological backstopping during Farmers grievance day of every third Thursday of the month.	<ul style="list-style-type: none"> Farmer's grievance related KVK were solved. Season wise lectures were delivered.
12	IIFPT,Thanjavur	Training to farmers, Rural Youth and data analysis for value addition, post harvest and processing.	Thiruvarur district farmers and farm womens were exposed to the value.

h) Soil Water and Plant Analysis

2019-20

Nature of sample	Number of samples	Number of farmers	Number of villages	Amount realized (Rs.)
Soil	393	393	163	40686
Water	63	56	29	3181
Total	449	449	192	43867

2020-21 (as on 31.01.2021)

Nature of sample	Number of samples	Number of farmers	Number of villages	Amount realized (Rs.)
Soil	300	278	152	29500
Water	74	68	60	4012
Total	374	346	212	33512

i) Human Resources Development:

2020-21

S.No	Name of the staff	Title of training	Duration		Institute
			From	To	
1	Dr.M.Ramasubramanian	Advances in Rice Research for Food Security and Environmental Sustainability	13.08.2020	13.08.2020	TRRI,Aduthurai
2	Dr.M.Ramasubramanian	2 nd National conference of Society of Krishi Vigyan on Advances in sustainable Agriculture	26.09.2020	28.09.2020	Society of Krishi Vigyan, Kolkatta, West Bangal
3	Dr.M.Ramasubramanian	5 th National Conference on Agricultural Scientific Tamil	09.10.2020	10.10.2020	Agricultural Scientific Tamil Forum , New Delhi and TNAU
4	Dr.M.Ramasubramanian	online 6 th National Conference on Agricultural Scientific Tamil	21.12.2020	22.12.2020	Agricultural Scientific Tamil Forum, New Delhi
5	Dr. A.Anuratha	Advances in Rice Research for Food Security and Environmental Sustainability	13.08.2020	13.08.2020	TRRI,Aduthurai
6	Dr. A.Anuratha	2 nd National conference of Society of Krishi Vigyan on Advances in sustainable Agriculture	26.09.2020	28.09.2020	Society of Krishi Vigyan, Kolkatta, West Bangal
7	Dr. A.Anuratha	5 th National Conference on Agricultural Scientific Tamil	09.10.2020	10.10.2020	Agricultural Scientific Tamil Forum , New Delhi and TNAU
8	Dr. A.Anuratha	online 6 th National Conference on Agricultural Scientific Tamil	21.12.2020	22.12.2020	Agricultural Scientific Tamil Forum, New Delhi

9	Dr. A.Anuratha	On line training programme on sea weed farming	10.02.2021	11.02.2021	Online- Central Marine Fisheries Research Institute, Mandapam, Ramanathapuram
10.	Dr. A.Anuratha	On line National web Conference on Sustaining Pulse Production for Self Sufficiency and Nutritional Security	09.02.2021	11.02.2021	Indian Society of Pulses Research & Development and ICAR-Indian Institute of Pulses Research (IIPR), Kanpur
11	Dr.R.Jegadeesan	International webinar on Advances in Rice Research for Food Security and Environmental sustainability	13.08. 2020	-	TRRI,Aduthurai
12	Dr.R.Jegadeesan	5 th National Conference on Agricultural Scientific Tamil	09.10.2020	10.10.2020	Agricultural Scientific Tamil Forum , New Delhi and TNAU
13	Dr.R.Jegadeesan	Urban forestry and Air quality	10.09.2020	-	FC&RI, Mettupalayam
14	Dr M.Selvamurugan	Advances in Rice Researcher for food security and Environmental sustainability	13.08.2020	-	TRRI, Aduthurai
15	Dr M.Selvamurugan	Urban forestry and Air quality	10.09.2020	-	FC&RI, Mettupalayam
16	Dr M.Selvamurugan	Production protocol for Biofertilizers	04.01.2021	08.01.2021	NIPHM, Hyderabad
17	Dr.S.Kamalasundari	Immuno - Nutrition, Wellness Management & Livelihood Change	3.07.2020	5.07.2020	Assam Agricultural University, Jorhat In association with ICAR- CIWA, Bhubaneswar
18	Dr.S.Kamalasundari	Webinar on Work, Work Environment and Wellness – An Ergonomic Perspective	05.08.2020	-	Community Science College and Research Institute, TNAU , Madurai,
19	Dr.S.Kamalasundari	COVID 19 Pandemic on World Health and Wealth BY Centre for Post Harvest Technology	6.08. 2020	-	Agricultural Engineering College & Research Institute TNAU, COIMBATORE

20	Dr.S.Kamalasundari	International webinar on Advances in Rice Research for Food Security and Environmental sustainability	13.08.2020	-	TRRI,Aduthurai
21	Dr.S.Kamalasundari	2 nd National Conference of Advances in sustainable agriculture -	26.09.2020	28.09.2020	Society of Krishi Vigyan
22	Dr.S.Kamalasundari	online 6 th National Conference on Agricultural Scientific Tamil	21.12.2020	22.12.2020	Agricultural Scientific Tamil Forum, New Delhi
23	Dr.V.Radhakrishnan	Stored Grain Pest Detection, Identification and Management	05.10.2020	09.10.2020	NIPHM,Hydrabad

j) Action Plan in brief for the next year (2020-21)

S. No	Names of the operational village	Crop/ Enterprise	Major problems identified	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented*
1	Rayapuram and Keezhapattu (AV)	Rice	<ul style="list-style-type: none"> • 25 to 28 % Yield loss due to Zinc deficiency • Poor health status of soil 	Soil Health Management	OFT-1 Assessment of Zinc solubilizing bacteria in Rice in Rabi season
2	Vaduvur, Vaduvur Sathanur(DFI)	Rice	<ul style="list-style-type: none"> • Wastage of Paddy straw after harvest • Long time to compost • Lack of awareness on composting 	Resource Conservation	OFT-2 Assessment of different decomposer in paddy straw composting

3	Vaduvur (DFI) Pullavarayankudikadu Keelapattu (AV)	Blackgram	The newly released blackgram varieties are resistant to YMV and capable of yielding about 15% higher than the exiting cultivating variety	Varietal Evaluation	OFT-3 Assessment of YMV resistant high yielding blackgram varieties
4	Keluvathur Melanagai Vaduvur (DFI)	Vegetable cowpea	Farmers are unaware about the low investment, high market potential, short duration vegetable crops suitable for sandy clay loam soils of Cauvery delta region	Varietal Evaluation	OFT-4 Assessment of suitable Vegetable cow pea (<i>Vigna unguiculata</i> L.) varieties for Tiruvarur district
5	Keluvathur Melanagai Vaduvur (DFI)	Cluster bean	Farmers are unaware about the low investment, high market potential vegetable crops suitable for sandy clay loam soils of Cauvery delta region.,	Varietal Evaluation	OFT-5 Assessment of suitable Cluster bean (<i>Cyamopsis tetragonoloba</i> L. Taub.) varieties for Tiruvarur district
6	Vaduvur (DFI) Keelapattu(AV)	Applicable to any crop	Despite the wards of farmers can act as information disseminators, their potential in Agricultural technology transfer is not explored fully. The differential effectiveness of wards of farmers in schools and colleges will reveal useful strategies to utilise the scope of the wards of farmers in transferring key technologies and facilitating the adoption	Information technology	OFT-6 Assessment of Effectiveness of Agricultural Technology Transfer through School Students
7	Vaduvur Sathanur (DFI)	Applicable to any crop	Though training evaluation is in built in all trainings of KVK, the effectiveness of such evaluation is being questioned. There exists lot of scope to improve the methodologies of evaluation of training in line with the developments which has been pointed out from recent literature	Training Evaluation	OFT-7 Assessment of the Effectiveness of different Training Evaluation Methods

8	Vilamal,Rishiyur, Vaduvur (DFI)	Animal Husbandry/ backyard poultry	High cost involved in backyard poultry	Poultry feed	OFT -8 Assessment of black soldier fly (<i>Hermetia illucens</i>) larvae as alternate protein source in poultry feed.
9	Vilamal, Rishiyur, Vaduvur (DFI)	Animal Husbandry/ Dairy animal	<ul style="list-style-type: none"> • Feeding of low quality roughage leads to negative energy balance. • Reduction in quality and quantity of milk. • High cost of milk production, low economic return 	Livestock management	OFT – 9 Assessment of Feed additives to improve milk quantity and composition in Dairy cattle.
10	Melanagai	Brinjal	<ul style="list-style-type: none"> • Poor Shelf life of fruits and vegetables • Lack of Post harvest facilities i.e Non availability of refrigerated transport and high quality cold storage facilities for food manufacturers and sellers. 	Post harvest technology	OFT-10 Assessment of different coating formulations to improve the shelf life of fruits and vegetables
11	Valangaiman Koradachery Nannilam Kudavasal	Cotton	The infestation of sucking pests is a regular occurrence as the cropping season is coincide with summer and causes considerable damage. The average yield loss caused due to sucking insects is about 10-25%. The farmers usually go for insecticide spray with over or under doze without knowing adverse effect on natural enemies and environment	Integrated Pest Management	OFT-11 Assessment of IPM modules against major sucking Pest of Cotton

12	Vaduvur, Thenpathy (DFI)	Rice	<ul style="list-style-type: none"> • Low yield of existing variety • Non adoption of ICM practices • Blast incidence in the ruling variety(BPT 5204) 	Varietal introduction	FLD-1 Demonstration of Newly released medium duration Paddy variety ADT 54 with ICM in Thiruvarur District Training/ Field day
13	Vaduvur, Thenpathy and Vadakakudi	Rice	<ul style="list-style-type: none"> • Lodging of existing variety (30%) • Incidence of leaf folder and blast disease (32%) • Demand for fine grain variety 	Varietal introduction	FLD-2 Demonstration of Newly released medium duration fine grain Paddy variety VGD 1 with ICM in Thiruvarur District Training/ Field day
14	Vadakakudi	Rice	<ul style="list-style-type: none"> • Low yield in existing practices • High demand for organically grown traditional rice variety 	Varietal Introduction	FLD-3 Demonstration of Traditional rice variety(Mapillai samba) with Eco friendly management Training/ Field day
15	Thiruvallanzhuli	Rice	Due to the salinity the approximate yield loss is 20-25%. The farmers usually are not adopting ICM practices in saline soils.	Soil Health Management	FLD-4 Demonstration of ICM for Salt affected soils of Thiruvarur District Training/ Field day
16	Vaduvur (DFI) Keelapattu (AV) Alangudi	Rice	Considerable yield reduction has reported during samba & Thaladi seasons of 2018-19 & 2019-20 due to heavy infestation of BPH	Integrated Pest Management	FLD-5 Demonstration of IPM modules and use of Field water tube for the management of BPH in Paddy Training/ Field day
17	Vaduvur (DFI) Keelapattu (AV) Devangudi	Rice	The North East monsoon which favours the infestation of Gallmidge and Blast. Severe infestation of gallmidge was reported during 2019-20	Integrated Pest Management	FLD-6 Demonstration of IPDM for Gall midge and Blast in paddy Training/ Field day

18	Pullavarayan kudikkadu	Rice	<ul style="list-style-type: none"> • Farmers could not visit KVK due to many constraints including time and distance • Timely information is the key for timely agricultural operations for which Agricultural Expert advice is needed <p>Farmer: Extension worker ratio has been drastically reduced</p>	ICT Tools	<p>FLD-7 Demonstration of Rice Expert System as android based mobile app</p> <p>Training</p>
19	Chithanvalur	Pulses (Applicable to any crop)	Often the farmers face the problem of inaccessibility of Extension workers and Scientists resulted in lack of efficiency in Technology Transfer. Many times the technologies are given not in line with the timing of agricultural operations which will not be useful for farmers. Further significant Cost involved in meeting of scientists/Extension workers in their workplace amidst busy agricultural operations	ICT Tools	<p>FLD-8 Demonstrating the Efficiency of Whatsapp in dissemination of technologies related to pulses Cultivation</p> <p>Training</p>
20	Vaduvur (DFI) Keelapattu (AV) Koilverni	Maize	Maize is introduced as alternate crop, which is vulnerable to Fall armyworm attack.	Integrated Pest Management	<p>FLD-9 Demonstration on Management module against Fall Army Worm in Maize</p> <p>Training/ Field day</p>
21	Valangaiman, Sitthanvaalur	Cotton	<ul style="list-style-type: none"> • Reddening due to magnesium deficiency • 10% of yield loss due to reddening 	Integrated Nutrient Management	<p>FLD-10 Demonstration of Nutrient management for leaf reddening in Bt cotton</p> <p>Training/ Field day</p>

22	Inamkiliyur	Banana	<ul style="list-style-type: none"> • Low yield in the existing variety • Existing variety is susceptible to cyclone 	Varietal Introduction	FLD-11 Demonstration of newly released Kauveri kalki banana variety for Thiruvarur district Training/ Field day
23	Keluvathur Melanagai Vaduvur (DFI) Keelapattu (AV)	Bhendi	Farmers are required alternate bund crops for regular income of their livelihood apart from pulse crop suitable for sandy clay loam soils.	Hybrid Introduction	FLD-12 Demonstration of Bhendi hybrid as border crop in paddy field of Thiruvarur district Training/ Field day
24	Vaduvur Thenpathi (DFI) Rayapuram (AV) Keelapattu (AV)	Any Enterprise including crop, animal husbandry, Fisheries	<ul style="list-style-type: none"> • The farmers often could not get their capacity built due to three important factors time, distance and cost • Monotony in training methodology and training environment • The training institutions like KVKs have been spending huge money for conducting trainings. In few occasions though all resources are available training could not be conducted 	Training Evaluation	FLD-13 Demonstration of the Effectiveness of Virtual Training Training/ Field day
25	Vaduvur(DFI) Keluvathur, Embethi	Animal Husbandry/Dairy animal/small ruminant	To propagate the practice of maintaining fodder plot for balanced ration	Fodder production	FLD-14 Demonstration of 10 cent model fodder plot Training/ Field day
26	Paravakottai, Rishiyur,Vaduvur Thenpathi (DFI) Keelapattu (AV)	Animal Husbandry/Dairy animal	Reduced energy in newly calved animal during peak lactation	Animal Husbandry/Dairy animal	FLD-15 Demonstration of rumen bypass fat to meet out the early energy deficiency in CBJ and CBHF Training

27	Vaduvur (DFI) Needamangalam, Keluvathur, Olimathi	Animal Husbandry/ba ckyard poultry	Non availability of suitable breeds for backyard poultry	Backyard poultry	FLD-16 Popularization of TANUVAS Aseel under backyard condition Training
28	Needamangalam, Enkan, Rayapuram (AV)	Animal Husbandry/ba ckyard poultry	Unused fish wastes in markets creating environmental pollution	Backyard poultry	FLD-17 Demonstration of Fish silage as feed to backyard poultry farmers Training
29	Needamangalam, Enkan, Rayapuram, (AV) Mannargudi	Fisheries	Low weight of existing varieties	Varietal introduction	FLD-18 Demonstration of intensive culture of Jayanthi Rohu Training
30	Vaduvur Thenpathi (DFI) Rayapuram (AV) Keelapattu (AV)	Nutritional garden	<ul style="list-style-type: none"> • Demand for organic greens and vegetables • Lack of knowledge on macro and micro nutrients in vegetables and greens • Low per capita consumption of vegetables and greens 	Nutri garden development	FLD-19 Demonstration of Nutritional garden in Anganwadis in Thiruvarur district Training
31	Rishiyur	Cereals, millets, pulses	Lack of awareness on ready to cook food from cereals, millets and pulses, Non availability of ready to use quality products viz., high fiber, gluten free, high nutrients and rich in nutraceutical benefits.	Value addition	FLD-20 Demonstration on RTU multigrain mix (EDP mode) Training
32	Vaduvur (DFI) Keelapattu (AV)	Mushroom	Lack of awareness on value addition, improved and attractive packaging, less shelf life and lack of knowledge in nutritional aspects of mushroom	Value addition	FLD-21 Demonstration of Ready to eat and ready to Cook Mushroom products Training

k) Revolving Fund Status (Rs. in lakh):

Year	Opening balance as on 1st April of previous year	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of current year
April 2018 to March 2019	2.35	10.33	11.56	1.12
April 2019 to March 2020	1.12	18.94	18.40	1.67
April 2020 to January 2021	1.67	13.30	14.87	0.10

l) Utilization of KVK funds during the Previous Year/Current Year (Rs.)

2019-20

Name of Head	Revised Estimate 2019-2020	Funds Received	Expenditure up to 31.03.2020	Balance
Recurring contingencies				
Pay & Allowances	10537000	9519864	12435069	-1898069
Pay & Allowances back log of 2017-2018	0		0	0
Travelling Allowances	130000		130000	0
a) Field activities & programmes				
b) Training Programmes				
Contingencies	400000		0	0
A. Office Contingencies				
a) Stationery, telephone, stamps and other expenditure on office running			179474	0
b) POL, repair of vehicles, tractor and equipments including hiring of vehicle			220526	
B. Technical Programme	680000		0	75
a) R. 150/- per person per day towards food and refreshments for KVK training programmes for farmers/extension personnel			14300	

b) Teaching materials for training and demonstration			74410	
c) Training of extension functionaries			997	
d) Publication of extension literature for farmers and extension functionaries			4140	
e) Honorarium for trainers			0	
f) On Farm Testing (Problem Oriented)			31213	
g) Front Line Demonstration on major crops including oilseeds & pulses, fodder crops, animal husbandry, fisheries, etc.			84501	
h) Kissan Melas/Farmers Fair (at KVK farm)			600	
i) Library (Purchase of news paper, journals, etc.)			5969	
j) Maintenance of farm			454239	
k) Entrepreneurship development programme (EDP)/Integrated Farming System (IFS/ Farmers Field School (FFS)			9556	
l) Soil Testing Refill and Printing of Soil Health Card			0	
m) SCSP COMPONENT			0	
Total of Recurring Items	11747000		13644994	-1897994
Non-Recurring Items				
Works	0		0	0
Bore well	0		0	0
Total	0		0	0
SCSP Component (Creation of Physical Assets/Repairs/Renovation)	142000		142000	0
Total of Non-Recurring items	142000		142000	0
Grand Total	11889000	9519864	13786994	-1897994

2020-21

Name of Head	Revised Estimate 2020-2021	Funds Received	Expenditure up to 31.01.2021	Balance
Recurring contingencies				
Pay & Allowances	14231000	11859167	13640616	590384
Pay & Allowances back log of 2017-2018	0		0	0
Travelling Allowances a) Field activities & programmes b) Training Programmes	130000		11346	118654
Contingencies			0	0
A. Office Contingencies				
a) Stationery, telephone, stamps and other expenditure on office running	529000		184737	182014
b) POL, repair of vehicles, tractor and equipments including hiring of vehicle			162249	
B. Technical Programme			0	
a) R. 150/- per person per day towards food and refreshments for KVK training programmes for farmers/extension personnel	647000	780375	50442	247773
b) Teaching materials for training and demonstration			41183	
c) Training of extension functionaries			0	
d) Publication of extension literature for farmers and extension functionaries			4105	
e) Honorarium for trainers			500	
f) On Farm Testing (Problem Oriented)			19655	

g) Front Line Demonstration on major crops including oilseeds & pulses, fodder crops, animal husbandry, fisheries, etc.			47076	
h) Kissan Melas/Farmers Fair (at KVK farm)			0	
i) Library (Purchase of news paper, journals, etc.)			7782	
j) Maintenance of farm			224649	
k) Entrepreneurship development programme (EDP)/Integrated Farming System (IFS/ Farmers Field School (FFS)			0	
l) Soil Testing Refill and Printing of Soil Health Card			0	
m) SCSP COMPONENT			3835	
Total of Recurring Items	15537000	12639542	14398175	1138825
Non-Recurring Items				
Works	0	37500	0	0
Bore well	0		0	0
Total	0		0	0
SCSP Component (Creation of Physical Assets/Repairs/Renovation)	110000		0	110000
Total of Non-Recurring items	110000		0	110000
Grand Total	15647000	12677042	14398175	1248825

Agenda Item No.05:**Achievements of SMSs :****Format for the agenda notes and presentation by the SMS**

1	Problem identified	Paddy is an important crop cultivated over 1,80,000 ha in Thiruvarur district during Kharif and Rabi season. More than 70% of soil was deficient in zinc and it leads to 25 to 28 % of yield loss in paddy
2	Technology Intervention Undertaken	OFT-Assessment of Zinc solubilizing bacteria in Rice in Rabi season
3	Mode of Implementation	On Farm Trial in 5 locations
4	Outcome	Data analysis is under progress
5	Action for up-scaling /recommendation of the outcome	Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Paddy is an important crop cultivated over 1,80,000 ha in Thiruvarur district during Kharif and Rabi season. Paddy straw generated are being left unutilized and burned causes deterioration in soil health and creates environmental pollution and Conversion of paddy straw into manure is time consuming without addition of additive like composting culture. The farmers usually burn their straw or sold to lower price. Hence new composting strategies should be assessed in this district for the effective composting of paddy straw.
2	Technology Intervention Undertaken	Assessment of different decomposer in paddy straw composting
3	Mode of Implementation	<ul style="list-style-type: none"> • OFT was conducted at five farmers field • On and Off campus trainings were given to 152 numbers of farmers and farm womens • Demonstrations were conducted for 152 farmers
4	Outcome	<ul style="list-style-type: none"> • Composting process completed.Samples collected and analysis is in progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Demonstrations were conducted • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning	-

1	Problem identified	Blackgram is cultivated in about 60000 ha in Tiruvarur District. ADT 5 is the ruling variety which occupies more than 95 per cent area which is susceptible to YMV. The newly released blackgram varieties are resistant to YMV and capable of yielding about 15% higher than the exiting cultivating variety
2	Technology Intervention Undertaken	Assessment of YMV resistant high yielding blackgram varieties
3	Mode of Implementation	<ul style="list-style-type: none"> • On Farm Trial • Proposed to conduct trainings and demonstrations
4	Outcome	<ul style="list-style-type: none"> • Under progress
5	Action for up-scaling /recommendation of the outcome	-
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Farmers of the Thiruvarur district are unaware about the low investment, high market potential short duration vegetable crops suitable for sandy clay loam soils of Cauvery delta region.
2	Technology Intervention Undertaken	OFT-Assessment of suitable Vegetable cow pea (<i>Vigna unguiculata</i> L.) varieties for Tiruvarur district
3	Mode of Implementation	<ul style="list-style-type: none"> • OFT is conducted at five farmers field • Proposed to conduct trainings
4	Outcome	Ongoing
5	Action for up-scaling /recommendation of the outcome	-
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Farmers of the Thiruvarur district are unaware about the low investment, high market potential vegetable crops suitable for sandy clay loam soils of Cauvery delta region.,
2	Technology Intervention Undertaken	OFT-Assessment of suitable Cluster bean (<i>Cyamopsis tetragonoloba</i> L. Taub.) varieties for Tiruvarur district
3	Mode of Implementation	<ul style="list-style-type: none"> • OFT is conducted at five farmers field • Proposed to conduct trainings
4	Outcome	Ongoing

5	Action for up-scaling /recommendation of the outcome	-
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Despite the wards of farmers can act as information disseminators, their potential in Agricultural technology transfer is not explored fully. The differential effectiveness of wards of farmers in schools and colleges will reveal useful strategies to utilise the scope of the wards of farmers in transferring key technologies and facilitating the adoption
2	Technology Intervention Undertaken	OFT-Assessment of Effectiveness of Agricultural Technology Transfer through School Students
3	Mode of Implementation	<ul style="list-style-type: none"> • On Farm Trial • Trainings and Dmonstrations
4	Outcome	<ul style="list-style-type: none"> • Experiment is being conducted
5	Action for up-scaling /recommendation of the outcome	
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Though training evaluation is in built in all trainings of KVK, the effectiveness of such evaluation is being questioned. There exists lot of scope to improve the methodologies of evaluation of training in line with the developments which has been pointed out from recent literature
2	Technology Intervention Undertaken	OFT-Assessment of the Effectiveness of different Training Evaluation Methods
3	Mode of Implementation	<ul style="list-style-type: none"> • On Farm Trial • Trainings and Dmonstrations
4	Outcome	<ul style="list-style-type: none"> • Experiment is being conducted
5	Action for up-scaling /recommendation of the outcome	
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	High feed cost
2	Technology Intervention Undertaken	OFT-Assessment of black soldier fly (<i>Hermetia illucens</i>) larvae as alternate protein source in poultry feed
3	Mode of Implementation	<ul style="list-style-type: none"> OFT is conducted at five farmers field Trainings & Field visits
4	Outcome	<ul style="list-style-type: none"> Under progress
5	Action for up-scaling /recommendation of the outcome	-
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Poor digestibility of available nutrients in feed
2	Technology Intervention Undertaken	OFT-Assessment of Feed additives to improve milk quantity and composition in Dairy cattle
3	Mode of Implementation	<ul style="list-style-type: none"> OFT is conducted at five farmers field Trainings Field visits Demonstrations
4	Outcome	<ul style="list-style-type: none"> Under progress
5	Action for up-scaling /recommendation of the outcome	-
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	<ul style="list-style-type: none"> Poor Shelf life of fruits and vegetables because of its perishables in nature. Lack of Post harvest facilities i.e Non availability of refrigerated transport and high quality cold storage facilities for food manufacturers and sellers
2	Technology Intervention Undertaken	OFT-Assessment of different coating formulations to improve the shelf life of fruits and vegetables
3	Mode of Implementation	<ul style="list-style-type: none"> OFT was conducted at five farmers field Demonstration conducted
4	Outcome	<ul style="list-style-type: none"> Observation is recorded
5	Action for up-scaling /recommendation of the outcome	-
6	Any other special activities worth mentioning	-

1	Problem identified	The infestation of sucking pests viz., whitefly, aphids, thrips, leafhopper and mealybug is a regular occurrence as the cropping season is coincide with summer and causes considerable damage. The average yield loss caused due to sucking insects is about 10-25%. The farmers usually go for insecticide spray with over or under doze without knowing adverse effect on natural enemies and environment
2	Technology Intervention Undertaken	OFT-Assessment of IPM modules against major sucking Pest of Cotton
3	Mode of Implementation	<ul style="list-style-type: none"> On Farm Trial in 5 locations
4	Outcome	<ul style="list-style-type: none"> Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> -
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Paddy is cultivated in about 1,80,000 ha of land in Thiruvavarur district. Ruling paddy variety of BPT 5204 is susceptible to blast. Due to blast incidence 15 to 20% of yield loss was noticed. Hence demonstration on newly released medium duration paddy variety ADT 54 should be conducted in this district.
2	Technology Intervention Undertaken	FLD-Demonstration of Newly released medium duration Paddy variety ADT 54 with ICM in Thiruvavarur District
3	Mode of Implementation	<ul style="list-style-type: none"> Front Line Demonstrations Trainings Demonstrations Field day
4	Outcome	Processing of data is in progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> Trainings given to farmers Trainings given to Extension functionaries Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning (Success Stories/Case Studies)	

1	Problem identified	<ul style="list-style-type: none"> • Lodging of existing variety (30%) • Incidence of leaf folder and blast disease (32%) • Demand for fine grain variety
2	Technology Intervention Undertaken	FLD-Demonstration of Newly released medium duration fine grain Paddy variety VGD 1 with ICM in Thiruvarur District
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	<ul style="list-style-type: none"> • Field day conducted. Harvesting stage
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning	Success Story documented

1	Problem identified	<ul style="list-style-type: none"> • Low yield in existing practices • High demand for organically grown traditional rice variety
2	Technology Intervention Undertaken	FLD-Demonstration of Traditional rice variety(Mapillai samba) with Eco friendly management
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations • Field day
4	Outcome	<ul style="list-style-type: none"> • Recorded biometric and yield datas
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning	Success Story documented

1	Problem identified	Paddy is cultivated in about 1,80,000 ha of land in Thiruvarur district. Around 8000 ha of soil was affected by salinity. Among the major problems faced by the farmers soil salinity due to saline water causes loss to the crop. Due to the salinity the approximate yield loss is 20-25%. The farmers usually are not adopting ICM practices in saline soils.
2	Technology Intervention Undertaken	FLD-Demonstration of ICM for Salt affected soils of Thiruvarur District

3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	<ul style="list-style-type: none"> • Recorded biometric and yield datas
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning	Success Story documented

1	Problem identified	Considerable yield reduction has reported during Samba & Thaladi seasons of 2018-19 & 2019-20 due to heavy infestation of BPH.
2	Technology Intervention Undertaken	FLD-Demonstration of IPM modules and use of Field water tube for the management of BPH in Paddy
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Harvesting stage
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning	Success Story documented

1	Problem identified	Paddy is cultivated in 1,85,000 ha in Thiruvarur district during Kuruvai, Thaladi, Samba and Summer season. Amongst, more than 1.25 lakh ha during Samba and Thaladi season coinciding with North east monsoon which favours the infestation of Gallmidge and Blast. Severe infestation of gallmidge was reported during 2019-20.
2	Technology Intervention Undertaken	FLD-Demonstration of IPDM for Gall midge and Blast in paddy
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings & Demonstrations
4	Outcome	Harvesting stage
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning	-

1	Problem identified	<ul style="list-style-type: none"> • Farmers could not visit KVK due to many constraints including time and distance • Timely information is the key for timely agricultural operations for which Agricultural Expert advice is needed • Farmer: Extension worker ratio has been drastically reduced
2	Technology Intervention Undertaken	FLD- Demonstration of Rice Expert System as android based mobile app
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through SMS & WhatsApp.
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Often the farmers face the problem of inaccessibility of Extension workers and Scientists resulted in lack of efficiency in Technology Transfer. Many times the technologies are given not in line with the timing of agricultural operations which will not be useful for farmers. Further significant Cost involved in meeting of scientists/Extension workers in their workplace amidst busy agricultural operations
2	Technology Intervention Undertaken	FLD- Demonstrating the Efficiency of Whatsapp in dissemination of technologies related to pulses Cultivation
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through SMS & WhatsApp.
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Maize is cultivated as alternate crop during Kuruvai season whenever the cauvery water is not released on 12 th June the date set for release of cauvery water from mattur dam every year for Kuruvai cultivation. Under TNIAM scheme, maize is introduced as alternate crop, which is vulnerable to Fall armyworm attack.
2	Technology Intervention Undertaken	FLD-Demonstration on Management module against Fall Army Worm in Maize
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings will be given to farmers • Trainings will be given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Cotton is cultivated in about 8049 ha of land in Thiruvarur district. The crop is mostly cultivated in Rice fallow condition. Among the major problems faced by the farmers reddening due to magnesium deficiency causes loss to the crop. Due to the symptoms of reddening the approximate yield loss is 10%. The farmers usually spray macronutrient only.
2	Technology Intervention Undertaken	FLD- Demonstration of Nutrient management for leaf reddening in Bt cotton Application of TNAU MN mixture 15 kg ha ⁻¹ as EFYM along with the recommended NPK + Bio-fertilizers @ 2kg/ha + Application of cotton plus @ 2.5 kg/ha
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp.
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	<ul style="list-style-type: none"> • Low yield in the existing variety • Existing variety is susceptible to cyclone
2	Technology Intervention Undertaken	FLD- Demonstration of newly released Kauveri kalki banana variety for Thiruvarur district
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Farmers are required alternate bund crops for regular income of their livelihood apart from pulse crop like black gram or green gram suitable for sandy clay loam soils of Tiruvarur district.
2	Technology Intervention Undertaken	Demonstration of Bhendi hybrid as border crop in paddy field of Thiruvarur district
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	<ul style="list-style-type: none"> • The farmers often could not get their capacity built due to three important factors time, distance and cost • Monotony in training methodology and training environment <p>The training institutions like KVKs have been spending huge money for conducting trainings. In few occasions though all resources are available training could not be conducted</p>
2	Technology Intervention Undertaken	FLD-Demonstration of the Effectiveness of Virtual Training
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations

		<ul style="list-style-type: none"> • Trainings
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	To propagate the practice of maintaining fodder plot for balanced ration
2	Technology Intervention Undertaken	FLD-Demonstration of 10 cent model fodder plot
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Reduced energy in newly calved animal during peak lactation
2	Technology Intervention Undertaken	FLD-Demonstration of rumen bypass fat to meet out the early energy deficiency in CBJ and CBHF
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Non availability of suitable breeds for backyard poultry
2	Technology Intervention Undertaken	FLD- Popularization of TANUVAS Aseel under backyard condition

3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	Success story will be documented

1	Problem identified	Unused fish wastes in markets creating environmental pollution
2	Technology Intervention Undertaken	FLD- Demonstration of Fish silage as feed to backyard poultry farmers
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Low weight of existing varieties
2	Technology Intervention Undertaken	FLD- Demonstration of intensive culture of Jayanthi Rohu
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Popularized through , SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Fruits and vegetables play an important role in the balanced diet of human beings by providing vital protective nutrients. A diet rich in fruits and vegetables plays a pivotal role in prevention of non communicable diseases. Nutrition garden by self can offer fresh and chemical free fruits and vegetables. But fruits and vegetables intake remain low due to the prize and constraints in buying. It leads to micronutrient deficiency (Iron, Zinc etc.)
2	Technology Intervention Undertaken	FLD-Demonstration of Nutritional garden in Anganwadis in Thiruvarur district 1.Layout of Nutrition Garden 2.Nursery raising 3.Soil application of biofertilizer 4.Foiliar application of vegetable spray and neem soap
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	-

1	Problem identified	Lack of awareness on ready to cook food from cereals, millets and pulses, Non availability of ready to use quality products viz., high fiber, gluten free, high nutrients and rich in nutraceutical benefits.
2	Technology Intervention Undertaken	FLD-Demonstration on RTU multigrain mix (EDP mode)
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	Under progress
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning	-

1	Problem identified	Lack of awareness on value addition, improved and attractive packaging, less shelf life and lack of knowledge in nutritional aspects of mushroom
2	Technology Intervention Undertaken	FLD- Demonstration of Ready to eat and ready to Cook Mushroom products
3	Mode of Implementation	<ul style="list-style-type: none"> • Front Line Demonstrations • Trainings • Demonstrations
4	Outcome	<ul style="list-style-type: none"> • Training on Processing and preservation techniques and value addition of mushroom was conducted at KVK on 22.12.2020. 36 Mushroom growing farmers from Delta district participated • Edible mushroom cultivation and spawn production training was conducted at KVK Thiruvarur on 30.12.2020 and 05.02.2021 62 Farmers, rural youth, farm women, self help groups, students were participated and benefitted
5	Action for up-scaling /recommendation of the outcome	<ul style="list-style-type: none"> • Trainings given to farmers • Trainings given to Extension functionaries • Popularized through Newspaper, SMS & WhatsApp
6	Any other special activities worth mentioning (Success Stories/Case Studies)	Documentation of KVK success farmer Mrs Buvaneshwari

Programme Coordinator