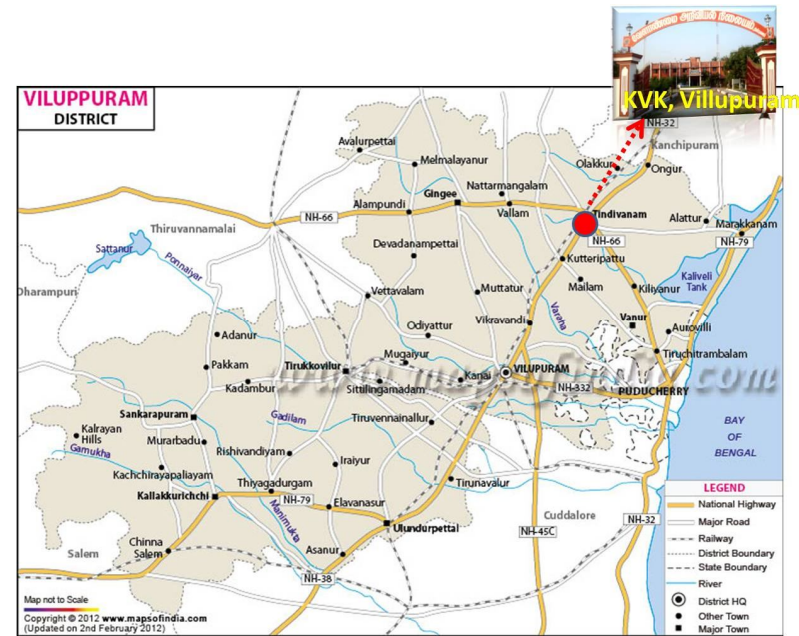
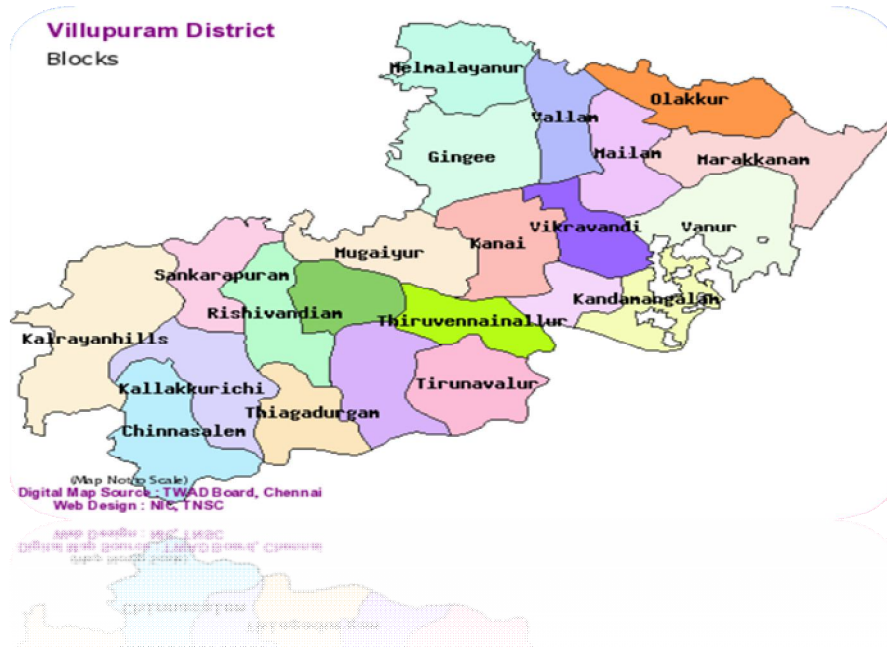


## Action Plan 2017-18

### ICAR -Krishi Vigyan Kendra, Tindivanam, Villupuram District, Tamil Nadu

Name and address of KVK with Phone, Fax and e-mail	:	<b>ICAR - KrishiVigyan Kendra</b> Tamil Nadu Agricultural University Tindivanam, Villupuram District – 604 002, Tamil Nadu Telephone (Office): 04147 250001, 04147250002 Fax : 04147 250001 E mail : kvktvm@tnau.ac.in Web Address : www.kvkvillupuram.org
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**1. Operational area / Cluster villages details**

<b>Taluk/ Block</b>	<b>Name of cluster villages</b>	<b>Major crops &amp; enterprises</b>	<b>Major problems identified in each crop / enterprise</b>	<b>Type of interventions</b>
Mugaiyur	Chennakunnam	Millets - Oilseeds	Utilizing poor yielding ragi varieties	Demonstration of Ragi variety CO 15 in Villupuram district (FLD)
Thiruvennai Nallur	Iruvelpattu	Millets - Oilseeds	Lower yield Use of conventional varieties High demand in local market	Demonstration of Tenai variety CO (Te) 7 (FLD)
Olakkur	Olakur	Paddy-pulses Vegetables	Non adoption of improved varieties Use of conventional varieties Non adoption of ICM technology	Introduction of new variety Bottle gourd PLR 1 in Villupuram district (FLD)
Marakanam	Siruvadi,	Paddy-pulses, Vegetables, Flowers	Poor establishment Low yield	Assessment of suitable saline tolerant Rice variety in Villupuram district (OFT)
	Kandhadu	Watermelon	Endemic occurrence of wilt diseases, indiscriminate use of plant protection chemicals & lack of awareness on biocontrol agents and prophylactic measures, incidence of red spidermite causing severe economic damage to the crop	Demonstration on Integrated pest and disease management in watermelon (FLD)
Thirunavalur	Kizhakkumathur	Paddy- Pulses/Cotton-Vegetables, Flowers	Poor field emergence Poor population maintenance Low yield	Introduction of TNAU seed coating polymer in cotton (FLD)
Kandamangalam	Mathur,	Blackgram/Field crop	High incidence of Yellow Mosaic Virus in blackgram in summer crops. Lack of varietal choice especially in summer crop	Assessment of Blackgram variety suitable for summer irrigated with special emphasis on YMV (OFT)
	Aliyur	Pulses	Non adoption of new released varieties Use of conventional varieties	Introduction of black gram variety VBN (Bg) 8 for

Action Plan 2017-18, KVK, Villupuram

			Non adoption of ICM technology	Villupuram district (FLD)
Vikravandi	Asoor	Paddy	Disease susceptibility of existing fine grain variety and Non adoption of new varieties	Introduction of Paddy variety CO 52 in Villupuram district (FLD)
Chinnasalem	Mamandur	Tapioca- groundnut	Poor knowledge about intercropping in cassava and low returns in cassava plantation alone due to price fluctuations	Assessment of suitability of Groundnut intercrop in Casavva in Villupuram district(OFT)
Ulundur pettai	Kattuedaiyar, ,	Turmeric/Spices	Non adoption of newer varieties Pest and disease problem Lower yield	Assessment of high yielding turmeric varieties in Villupuram district (OFT)
			Lack of awareness on Nematode disease complex, indiscriminate usage of agrochemicals, High incidence of rot and crop loss	Integrated pest disease and nematode management in Turmeric (FLD)
	Poompakkam	Paddy-pulses, Oilseeds, Vegetables,	Non adoption of improved varieties Use of conventional varieties Non adoption of ICM technology	Introduction of new Castor hybrid YRCH 2 in Villupuram district (FLD)
	Pudur	Sugarcane	Burning of trashes in field	Demonstration on Sugarcane trash composting (FLD)
Kozhiyanur	Cholampoondi	Sugarcane/ Commercial crop	Higher crop loss due to biotic factors, Indiscriminate use of plant protection chemical, Lack of knowledge on integrated Pest, Diseases and Nematode management,	Integrated pest, disease and nematode management in sugarcane (FLD)
Vallam	Yethanemili	Paddy - Oilseeds	Cultivating local sesame varieties with poor productivity	Demonstration of VRI 3 Sesame variety in villupuram district(FLD)
	Molasur	Paddy, Millets, pulses, sugarcane	Poor pod set Low yield	Assessment of foliar nutrition to enhance yield in blackgram (OFT)
Kallakurichi	Alathur	Buffalo	Poor feeding management Estrus Remain unnoticed because of poor intensity of heat signs Poor conception and infertility	Management of Anoestrus and Silent Heat in buffaloes (FLD)

Mailam	Agoor	Livestock and Poultry	Low yielding desi birds	Assessing the performance and suitability of meat purpose Chicken varieties of Nandanam-II and Krishibro under backyard farming system(OFT)
Thiagadurgam	Mudiyannur	Buffalo	Poor feeding of colostrum and milk during pre weaning period Lack of knowledge on regular deworming Poor management practices	Demonstration on Mitigation of Malnutrition and Delayed puberty in Buffalo Heifer calves (FLD)

## 2. Details of technological interventions

### 2.1 Technology Assessment (OFT)

S.No.	Crop/ enterprise	Title of intervention	Technological options	No. of trials	Team members involved
1	Rice	Assessment of suitable saline tolerant rice variety in Villupuram district (OFT)	TO1 : Farmers Practice TO2:TNAU Rice TRY 3 TO3: CSR 43	10	Dr. K.Parameswari, SMS (SST), Dr.M.Jayaramachandran, SMS (PBG), Dr. S. Sangeetha SMS (AEX)
2	Blackgram	Assessment of Blackgram variety suitable for summer irrigated with special emphasis on YMV	TO1: Farmer practice TO2 : ADT 5 TO 3: IPU-2-43	5	Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari, SMS (SST), Dr. S. Sangeetha, SMS (AEX)
3	Blackgram	Assessment of foliar nutrition to enhance yield in Blackgram	TO1 : Farmers Practice TO2: Pulse wonder TO 3: TNAU Nutri Gold	10	Dr. K.Parameswari SMS (SST), Dr. S. Sangeetha, SMS (AEX), Dr.M.Jayaramachandran, SMS (PBG)
4	Cassava/Groundnut	Assessment of suitability of Groundnut intercrop in Cassava in Villupuram district	TO 1 : Farmer's practice TO 2: Two rows of groundnut intercrop in	5	Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari SMS (SST), Dr. S. Sangeetha, SMS (AEX)

			ridges and furrows with the spacing of 30 cm X 10 cm between two rows of Cassava		
			TO 3: Two rows of grain cowpea inter crop in ridges and furrows with the spacing of 30 X 10 cm between two rows of Cassava		
5	Turmeric	Assessment of high yielding turmeric varieties in Villupuram district	TO1: Farmers Practice	5	Dr. S. Sangeetha SMS (AEX), Dr.M.Jayaramachandran, SMS (PBG), Dr. K.Parameswari SMS (SST)
			TO2 : CO -2		
			TO3 : IISR Pragati		
6	Poultry	Assessing the performance and suitability of meat purpose Chicken varieties of Nandanam-II and Krishibro under backyard farming system	TO 1: Farmers practice	10	Dr. M.Balumahendiran SMS (VAS), Dr. S. Sangeetha, SMS (AEX), Dr.M.Jayaramachandran, SMS (PBG), Dr. K.Parameswari SMS (SST)
			TO 2: Nandanam 2		
			TO3: Krishibro		
7	Livestock	Assessment of two different Ethno Veterinary Medicines for the prevention of subclinical mastitis in dairy cow	TO1: Farmers Practice	10	Dr. M.Balumahendiran SMS (VAS), Dr. S. Sangeetha, SMS (AEX), Dr.M.Jayaramachandran, SMS (PBG), Dr. K.Parameswari SMS (SST)
			TO2: Mastiguard - Teat Protect spray		
			TO3: Herbal teat Dip		
		<b>Total</b>		<b>55</b>	

**2.2 Frontline Demonstrations (FLD)**

<b>Category/ Crop or enterprise</b>	<b>Prioritized problem</b>	<b>Technologies Demonstrated</b>	<b>No. of Demo</b>	<b>Team members involved</b>
Cereal/Paddy	Disease susceptibility of existing fine grain variety, Non adoption of new varieties	New varietal seed ( CO 52 ), Seed treatment with biofertilizers , Bio agents	10	Dr. S. Sangeetha, SMS (AEX) Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari, SMS (SST)
Millets/ Ragi	Raising ragi varieties with low yield potential, Pest and disease incidence are more	New varietal seed ( CO 15 ), Seed treatment with biofertilizers , Bio agents	10	Dr.M.Jayaramachandran, SMS (PBG) Dr. S. Sangeetha, SMS (AEX) Dr. K.Parameswari, SMS (SST)
Millets/Tenai	Using local long duration varieties, Very low returns	New varietal seed ( CO (Te) 7), Seed treatment with biofertilizers , Bio agents	10	Dr.M.Jayaramachandran SMS (PBG) Dr. K.Parameswari, SMS (SST), Dr. S. Sangeetha, SMS (AEX)
Pulses/Blackgram	Use of conventional varieties, Non adoption of ICM technology	New varietal seed VBN 8 , Seed treatment with biofertilizers , Bio agents and spraying of crop booster (Pulse wonder)	10	Dr. S. Sangeetha, SMS (AEX) Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari, SMS (SST)
Oilseed/ Castor	Use of conventional varieties, Non adoption of ICM technology, Higher incidence of pest and wilt disease	New hybrid seed YRCH 2 , Seed treatment with biofertilizers , and spraying of crop booster (Castor gold)	10	Dr. K.Parameswari, SMS (SST), Dr. M.Jayaramachandran, SMS (PBG) Dr. S. Sangeetha, SMS (AEX)
Oilseed/Sesame	Cultivating local varieties with low yield potential High disease incidence	New white seeded sesame variety VRI 3 , Seed treatment with biofertilizers , and bio agent and application of Mn mixture	10	Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari, SMS (SST), Dr. S. Sangeetha, SMS (AEX)
Vegetables/Bhendi	Poor field emergence, Poor population and poor yield	Seed polymerization, seed treatment with biofertilizers and seed treatment with bio agents	15	Dr. K.Parameswari, SMS (SST), Dr. M.Balumahandran, SMS (VAS), Dr.M.Jayaramachandran, SMS (PBG)

Vegetables/Watermelon	High incidence of Wilt and red spider mite in Watermelon , Heavy yield loss due to poor plant population stand at fruiting stage.	Spraying of arka plant growth promoter and enhancer and Spiromecifen	10	Dr. S. Sangeetha, SMS (AEX) Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari, SMS (SST)
Vegetables/Bottlegourd	Non adoption of improved varieties , Use of conventional varieties, Non adoption of ICM technologies	Introducing PLR 1 bottle gourd seeds and seed treatment with <i>Pseudomonas</i>	10	Dr. K.Parameswari, SMS (SST) , Dr.M.Jayaramachandran, SMS (PBG) Dr. S. Sangeetha, SMS (AEX)
Commercial crop/Sugarcane	Non adoption of integrated Pest, Diseases and Nematode management, Crop loss due to biotic factors	Pest management through biological control (egg parasitoids, fungal pathogens)	10	Dr. K.Parameswari, SMS (SST) Dr. S. Sangeetha, SMS (AEX) Dr.M.Jayaramachandran, SMS (PBG)
Commercial crop/ Sugar cane	Burning of trashes in field	Heap composting	10	Dr. S. Sangeetha, SMS (AEX) Dr.M.Jayaramachandran, SMS (PBG) Dr. K.Parameswari, SMS (SST)
Commercial crop/ Turmeric	Lack of awareness on rhizome rot disease, Indiscriminate use of agrochemicals Crop loss	Integrated disease management through bioagents	15	Dr. S. Sangeetha, SMS (AEX), Dr. K.Parameswari, SMS (SST) Dr.M.Jayaramachandran, SMS (PBG)
Live stock/ Buffalo	Poor feeding of colostrum and milk during pre weaning period, Lack of knowledge on regular deworming and Poor management practices	Deworming methodology and to maintain animal health by providing mineral mixture and mineralized licks	20	Dr.M. Balumahendiran, SMS (VAS) Dr.M.Jayaramachandran,SMS (PBG) Dr. K.Parameswari, SMS (SST)
Livestock/ Buffalo	Poor feeding management, Estrus Remain unnoticed because of poor intensity of heat signs, Poor conception and infertility	Adopting Better management practices to bring the animals for perfect heat period	20	Dr.M. Balumahendiran, SMS (VAS) Dr. K.Parameswari, SMS (SST)
<b>Total</b>			<b>170</b>	

**3. Special Activities (NMOOP, NFSM, Skill Development, FFS, IFS, EDP etc.)**

Activity or Programme	Physical details (no. of programmes, participants, area etc.)
Cluster FLD -Pulses	50 demos 20 ha
Cluster FLD -Groundnut	50 demos 20 ha
Farmers Field School	25
Integrated Farming System	10
Millet processing and value addition – EDP mode	4

**4. Externally funded Activities (continuing 2017-18):**

Activity or Programme	Program duration	Funding agency	Physical details (no. of programmes, participants, area etc.)	Team members involved
National Initiative on Climate Resilient Agriculture (NICRA) (C31 OY)	3 years	ICAR	Climate resilient technologies-Natural Resource Management and empowerment of farmers-	Dr. K. Parameswari, SMS (SST) , Dr.S.Sangeetha, SMS (AEX) Dr.M. Balumahendiran, SMS (VAS) Dr.M.Jayaramachandran SMS (PBG)
Seed Hub- “Creation of seed hubs for increasing indigenous production of pulses in Villupuram District” under NFSM	3 years	IIPR KANPUR	Production & supply of certified seeds of pulses	Dr. K. Parameswari, SMS (SST) , Dr.M.Jayaramachandran SMS (PBG) Dr.S.Sangeetha, SMS (AEX) Dr.M. Balumahendiran, SMS (VAS)