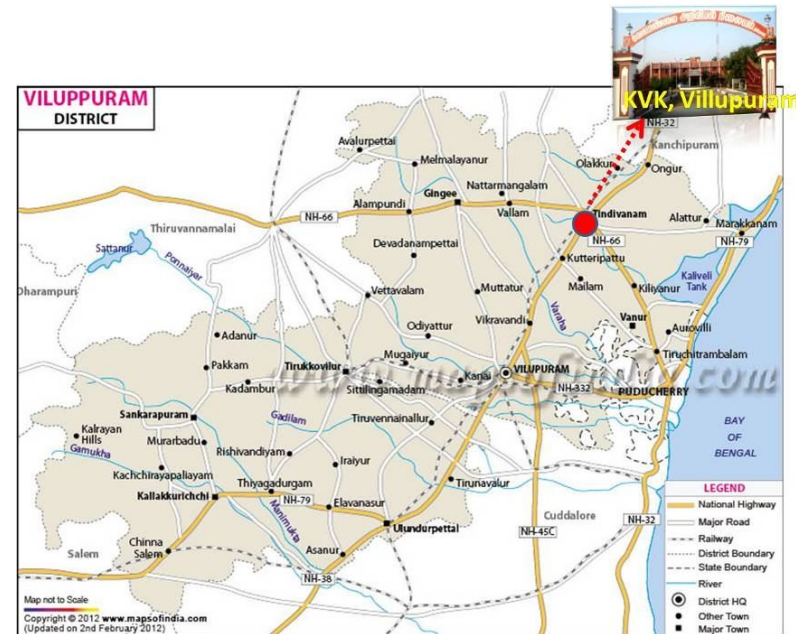
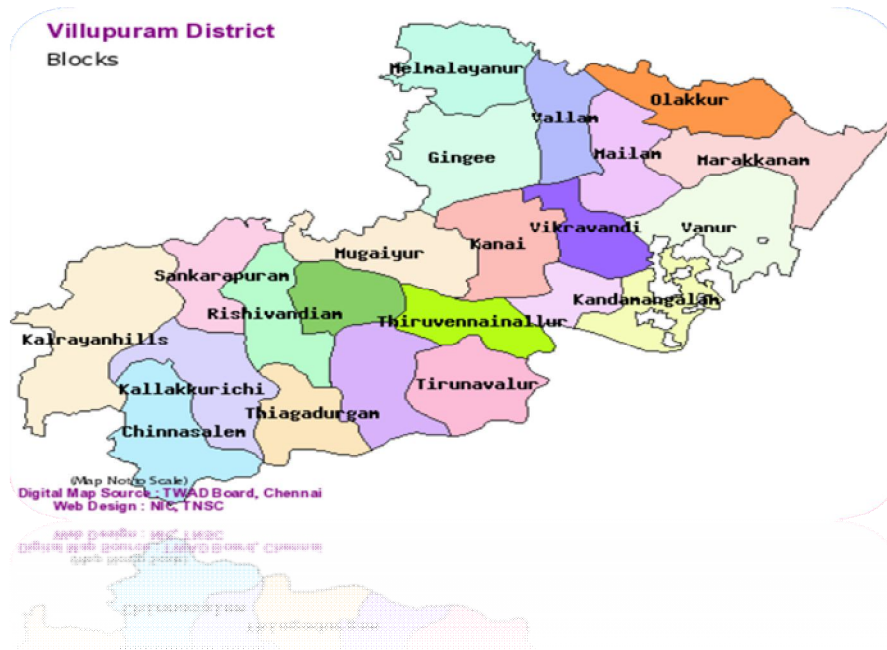


## Action Plan 2018-19

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

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## 1. Details of technological interventions

### 1.1 Technology Assessment 2018-19 (OFT)

S. No.	Crop/enterprise	Title of intervention	Technology options	Source of Technology	No. of trials	Parameters to be studied	Team members
1.1	Redgram	Assessment of high yielding redgram variety suitable for Villupuram district	TO 1: Farmers Practice	-	5	Number of pods per plant, Pod borer incidence, grain yield (Kg/ha) & BCR	Dr.M.Jayaramachandran Dr.K.Paremeswari
			TO 2: TT 401 Redgram	BARC 2011			
			TO4 - Pusa Arhar 16				
1.2	Ridge gourd	Assessing performances of Ridge gourd hybrids in Villupuram District	TO1 : Farmers Practice	-	10 (25 cents / trial)	Powdery mildew, downy mildew & caterpillar incidence (%),Yield (q/ha), BCR	Dr. K.Paramaswari, Dr. M. Jayaramchandran
			TO2: Arka Vikram	IIHR, 2016			
			TO3:CO H 1	TNAU, 2018			
1.3	Marigold	Assessment of Marigold varieties suitable for Villupuram District	TO1 : Farmers Practice	-	10 (10 cents per trial)	Flower borer & leaf spot incidence (%), Yield (q/ha), BCR	Dr. K.Paramaswari, Dr. V.K.Satya
			TO2: Arka Bangara 2	IIHR, 2014			
			TO3: Arka Agni	IIHR, 2017			
1.4	Paddy	Assessment of management practices for disease complex in rice	TO 1: Farmers practice	-	10	Blast, Sheath blight, BLB incidence (%) Yield (q/ha) BCR	Dr. V.K.Satya, Dr.K.Paremeswari
			TO 2: ST with Pf 1 @ 10g/kg + copper hydroxide@ 1.25 kg/ha at 30 and 60 DAT + Metominostrobin @ 500 ml/ha	TNAU, 2012			
			TO 3: Bleaching powder @ 5 kg/ha in irrigation water + Thiophanate @	KAU, 2014			

			500g/ha				
1.5	Pulses (Black Gram)	Assessment of Seed storage techniques to manage Bruchids in Pulses	TO 1: Farmer's Practice		5	Infestation (%) of bruchids in periodic intervals, germination (%) and seedling vigour & BCR	Dr.M.Jayaramachandran Dr.K.Paremeswari
			TO 2: Double gunny bags with 1% activated Kaolin	TNAU, 2013			
			TO 3: Hermetic storage bags	ICRISAT, 2015			
1.6	Chilli	Assessment of bio intensive management of wilt disease and nematode complex in chilli	TO 1: Farmers practice	-	10	Wilt incidence (%) Nematode infestation Yield (q/ha) BCR	Dr.V.K.Satya Dr.K.Paremeswari
			TO 2: ST of <i>P. fluorescens</i> @ 10 g/kg+Nursery bed treatment of <i>Pf</i> @ 20 g/sq.m + SA of <i>Pf</i> @ 2.5 kg/ha mixed with 50 kg vermicompost/ha at 30 & 60 DAS	TNAU, 2012			
			TO 3: ST of Trichorich - N @ 10g/kg + Nursery bed treatment of Trichorich - N @ 50 g/sq.m + SA of Trichorich - N @ 2.5 kg mixed with 50 kg vermicompost/ha at 30 & 60 DAS	IIHR, Bangalore, 2010			

1.7	ICT tools in Agriculture	Assessing the effectiveness of e-extension methods in terms of knowledge gain and skill acquisition and symbolic adoption behavior among the rural youth	TO1 : Agri-tech portal	TNAU	15	Significant knowledge gain, skill acquisition and symbolic adoption Yield	Dr.S.Sangeetha, Dr. K.Parameswari,
			TO2: On line Expert System (Informatics)	Informatics			
			TO3: India Development Gateway, GOI Vikaspedia Portal	<a href="http://vikaspedia.in/index">http://vikaspedia.in/index</a>			
1.8	ICT tools in Agriculture	Assessing the effectiveness of different mobile apps in terms of knowledge gain and agro advisory services	TO 1 - Kisan Suvidha Mobile Apps	GOI	10	Significant knowledge gain, skill acquisition and symbolic adoption Yield	Dr.S.Sangeetha, Dr. K.Parameswari,
			TO 2 - Farmer Mobile App	GOI			
			TO 3 - e-Nam mobile apps	GOI			
1.9	Livestock	Assessment of induction of oestrus in post partum anoestrus cows	TO1: Farmers Practice		10	Parity of the animal Duration of Post Partum period % of Oestrus Induction Conception rate	Dr. M.Balumahendiran Dr. K.Parameswari
			TO2: Vaginal sponge	VCRI Nammakal 2015			
			TO3: Prosync-NC	TRPVB 2016			
1.10	Poultry	Assessment of suitable poultry bird for backyard rearing	Farmers practice: Native bird		5		Dr. M.Balumahendiran Dr. K.Parameswari
			TO1: Gramapriya				
			TO2 : Srinidhi				
			TO3 : TANUVAS				

## 2. Frontline Demonstrations during 2018-2019

S. No.	Category	Crop/enterprise	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	No. of Demo	Parameters to be studied	Team members
2.1	Cereals	Paddy	Introduction of Paddy variety CO 52 in Villupuram District	Variety	CO 52	TNAU, 2018	10 (1.0 ac/demo)	Blast and leaf folder incidence (%), Stem borer incidence (%), Yield (q/ha) and BCR	Dr. K.Paramaswari, Dr. M. Jayaramchandran
2.2	Cereals	Paddy	Demonstration of Pani Pipe technology in Villupuram district	-	Pani Pipe technology	TNAU (SWC), 2017	15	No. of irrigation saved Yield	Dr.S.Sangeetha, Dr. K.Parameswari
2.3	Minor Millet	Kudiraivalli	Demonstration of MDU 1 Kudiraivalli variety in Villupuram district	Variety	MDU 1	TNAU 2016	25	Grain Yield (q/ha) Straw yield (q/ha)& BCR	Dr.M.Jayaramachandran Dr.K.Paremeswari
2.4	Pulses	Blackgram	Introduction of Rice Fallow new Blackgram variety ADT 6 in Villupuram District	Variety	ADT 6	TNAU, 2018	10 (1.0 ac/demo)	Pod yield (q/ha), Pod borer incidence (%), Root rot incidence (%) & BCR	Dr. K.Paramaswari, Dr. S. Sangeetha
2.5	Fodder	Cowpea	Demonstration of fodder cowpea variety CO 9 in Villupuram district	Variety	CO 9	TNAU, 2015	10	Green fodder yield (q/ha) Dry fodder yield (q/ha), Palatability (%) BCR	Dr.M.Jayaramachandran Dr.K.Paremeswari
2.6	Oilseeds	Groundnut	Introduction of New Groundnut Variety TMV 14	Variety	TMV 14	TNAU, 2018	5	Pod yield (q/ha), Pod borer incidence	Dr.S.Sangeetha, Dr. K.Parameswari

			in Villupuram district					%), Root rot incidence(%) & BCR	
2.7	Vegetable	Watermelon	Demostration of Arka Akash water melon hybrid	Hybrid	Arka Akash	IIHR,2013	10	Germination (%),Yield & BCR	Dr.M.Jayaramachandran Dr.K.Pameswari
2.8	Vegetables	Snake gourd	Demonstration of newly released Snake Gourd hybrid COH 1	Hybrid	COH 1	TNAU, 2018	10	Fruit yield Fruit fly incidence (%) & BCR	Dr.S.Sangeetha, Dr. K.Pameswari
2.9	Milletts	Maize	Management of post flowering stalk rot in maize	Hybrid	MK 46	TNAU 2012	15	Stalk rot incidence Yield (q/ha) BCR	Dr.V.K.Satya Dr.K.Pameswari
2.10	Oilseeds	Groundnut	Ecofriendly management of soil borne diseases in groundnut	Variety	TMV 7	TNAU 2012	15	Collar rot incidence (%) Dry root rot incidene (%) Grain yield (q/ha) & BCR	Dr.V.K.Satya Dr.K.Pameswari
2.11	Vegetable	Bitter gourd	Integrated pest and disease management practices in bitter gourd	Hybrid	Covai	TNAU 2012	10	Fruit fly incidence (%) Stem gall incidence (%) Downy mildew (%) Yield (q/ha) & BCR	Dr.V.K.Satya Dr.K.Pameswari
2.12	Livestock	Dairy cow	Demonstration of teat protect spray for prophylaxis of sub clinical mastitis	-	-	TRPVB 2016	20	% Incidence of Subclinical Mastitis Somatic Cell Count BCR	Dr. M.Balumahendiran Dr.K.Pameswari
2.13	Livestock	Calf	Demonstration of TANUVAS Calf kit for management of young ones	-	-	TANUV ASS 2018			Dr. M.Balumahendiran Dr.K.Pameswari
2.14	Livestock	Cattle	Demonstration on detection and management of ketosis in high yielding dairy cows	-	-	TRPVB 2016	20	Incidence of Ketosis Milk yield BCR	Dr. M.Balumahendiran Dr.K.Pameswari

2.15	<b>Cluster FLD</b>								
2.15.1	Pulses	Black gram	Cluster FLD on Pulses -Blackgram under NFSM	Variety	TNAU VBN 6/MDU1	TNAU 2011, 2016	30	Plant population/m2 YMD incidence (%) Yield (t/ha) BCR	Dr. K. Parameswari, Dr.M.Jayaramachandran, Dr.V.K.Satya, Dr.S.Sangeetha, Dr. M.Balumahendiran
2.15.2	Oilseeds	Groundnut	Cluster FLD on Oilseeds- Groundnut under NMOOP	Variety	TMV13/VRI 6	TNAU 2009	100	Plant population/m2, Collar rot incidence, Yield (t/ha) and BCR	Dr. K. Parameswari, Dr.M.Jayaramachandran, Dr.V.K.Satya, Dr.S.Sangeetha, Dr. M.Balumahendiran