

Frontline Demonstrations during 2017-18

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo	Parameters to be studied
1	Cereals	Paddy	Dead heart and white ear Yield loss in paddy	Demonstration of Ecofriendly management methods for the management of paddy stem borer Like 1.Clipping of seedlings 2.3. Release of egg parasitoid 3. Pheromone trap 4. Spraying with botanical and green label pesticides	Variety	-	TNAU	<i>Trichogramma japonicum</i>	6cc	2000	10	20000	Dead heart %, White ear %, Yield and B:C ratio
								NSKE 5 %	10 kg/acre				
								Chlorantraniliprole 18.5% SC	50ml				
								Pheromone trap	5/acre				
2	Cereals	Paddy	Yield loss due to severe incidence of sheath blight, blast in young crop followed by sheath rot during boot leaf stage	Demonstration of disease management efficacy of <i>P. fluorescens</i> in paddy Seed treatment and seedling dip in <i>P. fluorescens</i> Pf1 (Liquid) followed by F.S of Pf1 (Liquid) @ 2% at the	variety	-	TNAU	<i>P. fluorescens</i> Pf1 (Liquid)	5 litres	750	10	6,250	Disease incidence, grain yield, and B:C ratio
								Field board	1 No	500			

				time of initiation of disease and 15 days later									
3	Pulses	Green gram	Popularizing Tractor Drawn Seed Drill for pulses Labour problem	Tractor Drawn Seed Drill for pulses	-		TNAU	Seed (CO(Gg) 8)	8 kg/ ac	1500	10	60,000 (Seed drill cost @ 45,000)	Yield, labour Efficiency, cost economics
4	Millet	Tenai	Traditional long duration varieties, low yield	Demonstration of Tenai CO 7	Tenai CO 7	Tenai CO 7	TNAU	Tenai CO 7 seeds	4 kg / ac	200	10	2000	Grain yield, BCR
5	Millet	Kudiraivalli	Traditional varieties, low yield	Demonstration of newly released Banyard millet	MDU 1	-	TNAU	Seed Pseudomonas	2 kg/acre	500	10	5000	Grain yield, BCR
6	Fibre crop	Cotton	Labour problem, wilting of plants and yield loss	Demonstration of mechanization and stem weevil management for cotton	Variety	SVPR 2	TNAU	seed choloripyriphos Chlorpyriphos 2.Neem cake	2 litres 60 kg/acre	2500	10	43,000	Yield, labour Efficiency, cost economics % gall infestation, Yield and BCR

7	Fruit	Mango	Yield reduction upto 20% and production of 60% 'B & C' grade fruits, flower drop and Yield loss	Demonstration integrated crop management practices in mango	Variety	Mango Special	IIHR	Mango special Field board	8kg	1600	10	35,000	Wt.of.individual fruit, No.of marketable fruit yield /ha BC ratio
									1	400	10		
8	Vegetable	Snake guard	Low yield due to varieties cost of private hybrid seed are much higher	Demonstration snake guard COH-1	Hybrid	CoH-1	TNAU	Seed	400g	1500	10	15,000	No. fruits plant yield/ha BC ratio
								field border	100	400	10	4,000	
												19,000	
9		Onion	Yield loss (upto 95%) due to severe incidence of purple blotch and aggravated by thrips incidence	Demonstration of integrated management practices for thrips and Purple blotch disease complex in onion	Variety	Co5 and local varieties	TNAU	<i>Pseudomonas fluorescens</i>	2 kg	200	10	13,000	Disease incidence, Thrips population, Bulb yield and B:C ratio
								Neem Soap	1kg	200			
								Tebuconazole 97%TC	100ml	300			
								Field board	1	500			

10		Tomato	Yield loss due to severe incidence of spotted wilt disease	Demonstration of IPDM package for managing spotted wilt disease caused by GBNV in Tomato	Hybrids	Local Hybrids	TNAU	<i>Pseudomonas fluorescens</i>	1Kg 500g 50kg 5	100 50 1000 200	10	28,500	Disease incidence percentage, vector population, yield and B:C ratio	
								<i>Trichoderma viride</i> Neem Cake Yellow sticky trap						
								Field Board	1	500				
11		Brinjal	Indiscriminate usage of pesticides leaves residues in brinjal and Yield loss	1.Clipping of affected parts 2.Behavioural Manipulation method 3. Egg parasitoid release 4. Botanical and biocontrol agent spray		Variety	TNAU IIHR NBAIR	Pheromone trap	5 /acre	1,500/-	10	15,000/-	Shoot damage, Fruit damage, yield and B:C ratio	
								<i>Trichogramma chilonis</i>	6cc /ac					
								<i>Neem soap</i>	10 g/litre					
								Bt	1ml/litre					
12	Tomato	Tomato	Post harvest loss of tomato due to surplus production and lack of tomato processing technologies at farm level	Demonstration of tomato dehydration techniques	Variety	-	TNAU	Increase in income level of the farmers commodity group	2	-	2	5,000/-	Increase in income level of the farmers commodity group	

13		Moringa	Widespread prevalence of anaemia among women. Lack of knowledge on preparation of iron rich convenience foods	Dehydration and value addition of moringa leaves and pods – dehydrated moringa and leaves, moringa based convenience food mixes, quality control, packaging and labelling	Variety	-	TNAU	Dehydration and value addition of moringa leaves and pods – dehydrated moringa and leaves, moringa based convenience food mixes, quality control, packaging and labelling	2	-	10	5,000	Increase in income level of the farmers commodity group
----	--	---------	---	---	---------	---	------	---	---	---	----	-------	---