

Action Plan 2019-20: Summary of Technical Activities

Frontline Demonstrations (FLDs)

S. No.	Category/ Crop or Enterprise	Prioritized problem	Technologies demonstrated	No. of Demos.					Area (ha)/ Unit	Total cost invol ved (Rs.)	Team members involved
				DFI village		Non DFI village		T			
				O	SC -Sp	O	SC- Sp				
1	Maize	<ul style="list-style-type: none"> • Irrigation with poor quality water • (EC > 5dS m⁻¹) • 150 ha area affected (Thipbramahadevi, Minnakkal, Mallasamudram, Nachipatti, Ayyampalayam) 	Demonstration on Integrated Crop Management practice in Maize	0	0	10	0	10	4	25900	Scientist (Soil Science) & Senior Scientist & Head
2	Castor	<ul style="list-style-type: none"> • Growing unknown castor varieties • Poor soil fertility (Low N P K) • Low yield (300-350 kg/acre) 	Demonstration on Integrated Crop Management Practices in Castor based intercropping	2	2	6	0	10	4	21500	Scientist (Agronomy)& Senior Scientist & Head
3	Sugar cane	<ul style="list-style-type: none"> • Non adoption of SSI technologies • Water scarcity during cropping end • Higher cost of setts 	Demonstration on Sustainable Sugarcane Initiative technology in Sugarcane	0	0	5	0	5	2	23000	Scientist (Agronomy)& Senior Scientist & Head
4	Sugarcane	<ul style="list-style-type: none"> • Incidence of borers and white fly -15% • Infested leaves look white and black dots. • Incidence of woolly aphids-7% 	Demonstration on Bio-intensive IPM module in sugarcane	0	0	6	4	10	3	18950	Scientist (Plant Protection) & Senior Scientist and Head
5	Chilli	<ul style="list-style-type: none"> • Heavy incidence of thrips, mite, fruit borer, resulted heavy yield loss of 30 per cent 	Demonstration on Bio intensive IPM Module in Chillies	5	5	0	0	10	3	17150	Scientist (Plant protection & Horticulture) & SS and Head
6	Banana	<ul style="list-style-type: none"> • Yield reduction (3-5 hands in a bunch) 	Demonstration on Integrated Crop	0	0	0	10	10	2	7600	Scientist (Horticulture &

		<ul style="list-style-type: none"> • Unawareness about ICM Practices • Fusarium wilt incidence 	Management practices in Hill Banana (Namaran & Red banana) of Kollihills								Plant Protection) & SS and Head
7	Tapioca	<ul style="list-style-type: none"> • Sole cropping (99%) • Weed menace in 3-4 months after planting • Soil loss by erosion 	Demonstration on row intercropping system in Tapioca with ICM practices. Trainings	10	5	0	0	15	4	15000	Scientist (Horticulture & Agronomy) & SS and Head
8	Small onion	<ul style="list-style-type: none"> • Basal rot incidence • Yield loss (25-35 %) 	Demonstration on Biological control of Basal rot in Aggregatum onion with Integrated Crop Management practice Training	0	0	10	5	15	3	14925	Scientist (Horticulture & Plant Protection) & SS and Head
9	Tomato	<ul style="list-style-type: none"> • Soil deficient in OC (69%), • N (63 %), Zn (86%) & B (23%). • Continuous & excess application of chemical fertilizer affects the soil fertility • Lack of awareness about biofertilizer application 	Demonstration on ICM practice in Tomato	0	10	0	0	10	4	17750	Scientist (Soil Science) & Senior Scientist & Head
10	Integrated farming system	<ul style="list-style-type: none"> • Low rainfall (450-550mm) • Frequent crop failure during drought • No awareness on recycling of farm waste • Poor soil fertility in rainfed areas • Less farm income 	Demonstration on Integrated Farming System (IFS) Model in drought prone areas	0	0	0	3	3	1.2	22700	Scientist (Agronomy), Senior Scientist & Head
11	Poultry manure	<ul style="list-style-type: none"> • Lack of information on composting & enriched poultry 	Demonstration on enriched poultry waste compost	1	9	0	0	10	-	24000	Scientist (Soil Science) &

		manure preparation	preparation								Senior Scientist & Head
12	Dairy	<ul style="list-style-type: none"> forages for animals leads to High cost of production 	Demonstration on Mulberry leaves for better milk yield in crossbred dairy animals	10	0	0	0	10	20 animals	14250	Scientist (Animal Science) & Senior Scientist & Head
13	Dairy	<ul style="list-style-type: none"> During early lactation, the amount of energy required for milk production often exceeds the amount of energy available from the diet. The negative energy balance in early lactation affects the milk yield 	Demonstration on bypass fat supplementation for better milk yield in HF Crossbred cows	6	0	0	0	6	12 animals	10040	Scientist (Animal Science) & Senior Scientist & Head
14	Poultry	<ul style="list-style-type: none"> Poultry products are expensive in rural areas due their non-availability. Rearing native chicken varieties in rural backyards will improve the availability of meat and alleviate the protein hunger besides providing subsidiary income. 	Demonstration on performance of TANUVAS Aseel Chicken under field condition for meat purpose	0	10	0	0	10	140 chickens	22050	Scientist (Animal Science) & Senior Scientist & Head
15	Dairy	<ul style="list-style-type: none"> Ketosis is a common metabolic disorder of adult cattle typically occurring in dairy cows in early lactation. 	Demonstration on Rapid detection kit (Ketocheck) for ketosis in bovine	10	0	0	0	10	20 animals	4900	Scientist (Animal Science) & Senior Scientist & Head
16	Minerals Supplementation	<ul style="list-style-type: none"> The imbalance in the ionic composition of water, causing poor growth improper moulting and 	Effect of Minerals Supplementation on Growth and Survival of <i>Litopenaeus vannamei</i> in	0	0	2	0	2	0.2	17000	Scientist (Fisheries) & Senior Scientist & Head

		mass mortality of shrimp	Low Salinity Water									
17	IFS	<ul style="list-style-type: none"> Large amount of sedimentation with high levels of nutrient accumulation(Nitrogen, phosphorus & organic carbon) 	Demonstration on Integrated culture of Grass carp (Ctenopharyngodon idella) and vegetable	0	0	1	0	1	0.1	20000	Scientist (Fisheries) & Senior Scientist & Head	
18	Pangasius	<ul style="list-style-type: none"> Longer growth period in carp during water scarcity High mortality of carps due to DO problem during rainfall at higher temperature and humid days 	Demonstration on Intensive culture of Pangasius in freshwater culture	0	0	0	2	2	0.3	15000	Scientist (Fisheries) & Senior Scientist & Head	
19	Fish waste composting	<ul style="list-style-type: none"> Lack of information on composting & value addition in Fish waste 	Eco-friendly and modern methods of Fish waste recycling for enhancing farm profitability	0	2	0	0	2	6 x 6x 1m	16975	Scientist (Fisheries) & Senior Scientist & Head	
Total				44	43	43	26	156		328690		
Total trials in DFI villages				87/156 in 10/19 FLDs								
Total trials under SC SP				69/156 in 12/19 FLDs								