

Action Plan 2019-20: Summary of Technical Activities

Technology Assessment (OFTs)

S. No.	Crop/ Enterprise	Title of intervention	Technological options	No. of trials				Total cost involved (Rs.)	Team members involved	
				DFI village		Non DFI village				T
				O	SC-SP	O	SC-SP			
1	Foxtail Millet	Assessment of Foxtail Millet variety under rainfed condition in Namakkal district	TO1- Cultivation of local variety (Farmers practice) TO2- Foxtail Millet Variety - Co(Te)-7 (Source: TNAU 2005) TO3- Foxtail Millet Variety – Suryanandi (SiA 3088) (Source: RARS, Nandyal, ANRAU,2012)	1	1	3	0	5	10800	Scientist (Agronomy) & Senior Scientist & Head
2	Maize	IPM of Fall Army worm (<i>Spodoptere fugiperda</i>) on Maize	TO1 – Farmers’ Practice – FYM @ Application of Insecticides TO2 - Summer ploughing Neem Cake @ 100 kg/ac at last ploughing Seed treatment with Fortezaduo (Cyantraniliprole + Thiamethoxam) @ 2 ml/Kg Border drop with grain sorghum & Intercropping with Cowpea Collection and destruction of Egg masses Installation of Pheromone traps @ 4 Nos/ac Neem spray (1%) 10 to 15 DAS EPN or Bt @ 2g/lt 15 – 21 DAS Spraying of Insecticide – 21 -28 & 36-42 DAS Spraying of <i>Metarhizium anisopliae</i> @ 2ml/lt 30-35 DAS	2	3	0	0	5	25000	Scientists (Plant protection & Agronomy) & SS and Head

			Poison baiting @ 45 - 65 DAS (Source:TNAU/ ATARI, 2019)							
3	Cotton	Assessment of nutrient management practice for cotton	TO1- Application of complex fertilizer (17:17:17) @ 50 kg /acre as basal dose, & urea and Muriate of potash each @ 50 kg /acre @ 45 DAP TO2- Recommended practice (FYM @ 12.5 t/ha + Biofertilizers @ 2 kg/ha +100% RDF + Mn mixture @15 kg/ha) (Source: TNAU, 2012) TO3- Recommended practice (FYM @ 5 t /ha & Sunnhemp @ 15kg/ha raised & insitu incorporated in burrows + Biofertilizers @ 2 kg/ha +100% RDF + Mn mixture @15 kg/ha) (Source: CICR, 2016)	0	0	5	0	5	10350	Scientist (Soil Science) & Senior Scientist & Head
4	Mango	Assessment of management modules against leaf hopper complex in Mango in Namakkal District	TO1 (Farmers practice) Spraying of combination of insecticides of local available chemical @ 60ml/lit. TO2 1. (Spraying of oil based <i>Metarhizium anisopliae</i> @ 1ml/ lit of water at 3 times for weekly intervals. 2. Setting up of Yellow sticky trap @ 25/ha. (Source: IHR, 2017) TO3 1. Neem oil @ 5ml/lt or Nimbicidine 1500ppm @ 4ml/lt	0	0	5	5	10	8900	Scientist (Plant protection & Horticulture) & SS and Head

			2. Setting up of Yellow sticky trap @ 25/ha (Source: TNAU, 2016)							
5	Black pepper	Assessment of suitable control measure against foot rot in black pepper in Kollihills	<p>TO1 (Farmers practice) : Drenching of Copper oxy chloride @2.5 gm/lit : 2-3 lt/vine Butter milk : 10 lt + 10 lt water = 500 ml/vine at 2 months interval.</p> <p>TO2 (Recommended practice The following formulation can be drenched in the soil twice (May – June and October - November). <i>Trichoderma viride</i> or <i>T.harzianum</i> @ 50 g/vine + FYM @ 5kg/vine (Source: TNAU,CBE,2013)</p> <p>TO3 (Alternate practice IISR Bio capsule – <i>Trichoderma harzianum</i> 10¹⁸ CFU @ 10 Nos/ 0.4 ha IISR Microbial consortium (<i>Micrococcus luteus</i>, <i>Enterobacter aerogens</i> & <i>Micrococcus sp</i>) for growth promotion @ 100gm/vine Soil pH based IISR crop booster for Pepper @ 5g/litre of water, Once during spike initiation with the onset of monsoon & another after 2 months. (Source: IISR,Calicut,2017)</p>	0	0	5	0	5	26500	Scientists (Horticulture, Plant protection) & SS and Head

6	Small onion	Assessment of vegetable + flower based intercropping system in Namakkal District	<p>TO1 (Farmers practice) : Sole cropping of small/ aggregatum onion with a spacing of 15 x 15 cm</p> <p>TO2 (Recommended practice Aggregatum onion (15 x15 cm) + Chilli (75 x 60 cm) intercropping system (Source: UAS,Dharwad,2010)</p> <p>TO3 (Alternate practice Aggregatum onion (15 cm) + Chrysanthemum (60x60cm) intercropping system(Source: DOGR, Pune 2013)</p>	2	0	3	0	5	15000	Scientist (Horticulture) & SS and Head
7	Dairy	OFT- Assessing technology for enhancing the milk Fat and SNF by supplementing sodium bicarbonate and yeast in cross bred dairy animals	<p>TO1- Farmers practice</p> <p>TO2- Sodium bicarbonate 50g/d/animal (Source: Allahabad University, UP,2015)</p> <p>TO3- yeast 2-3 bolous /day/animal (Source: Allahabad University, UP,2015)</p> <p>TO4- Combination of T2 and T3 group</p>	0	0	3	2	5	9760	Scientist (Animal Science) & SS and Head
Total				5	4	24	7	40	106310	
Total trials in DFI villages				9/40 in 3/7 OFTs						
Total trials under SC SP				11/40 in 4/7 OFTs						