

# ICAR-Agricultural Technology Application Research Institute (ICAR-ATARI)

## Action Plan 2020-21: Summary of Technical Activities

### DFI villages

District/Taluk/ Block	Name of cluster villages	Major crops & Enterprises	Major problems identifies in each crop/enterprise	Proposed type of interventions (OFT/ FLD/ Training/ Field day/ Method demonstrations/ Awareness camp)
Rasipuram / Vennandur / Namagiripettai	Moolakadu Ondikadai	Groundnut	<ul style="list-style-type: none"> <li>Cultivation of existing local variety (TMV-7, local)</li> <li>Non availability of HYV</li> <li>Diseases incidence (root rot)</li> <li>Non availability of drought tolerant varieties.</li> <li>Less farm income</li> </ul>	<b>CFLD- Demonstration of High yielding groundnut varieties (CO-7, Dharani) for seed production and ICM Practices.</b> Training on ICM and seed production in groundnut Method demonstration Extension activity-Field day
		Black gram	<ul style="list-style-type: none"> <li>Non availability of HYV</li> <li>Higher incidence of YMV</li> <li>Less yield (455 kg/ha)</li> </ul>	<b>CFLD- Demonstration of high yielding black gram (VBN-8) varieties and ICM Practices.</b> Training on ICM in black gram, Method demonstration, Extension activity-Field day
Rasipuram / Vennandur / Namagiripettai	Moolakkadu Ondikkadai	Castor	<ul style="list-style-type: none"> <li>Cultivation of unknown exiting castor variety</li> <li>Diseases incidence of botrytis (8-10%)</li> <li>Less castor seed yield (465 kg/ha)</li> <li>Less farm income under rainfed condition</li> </ul>	<b>CFLD- Demonstration of high yielding castor hybrids and ICM Practices.</b> Training on ICM in castor production Method demonstration Extension activity-Field day
		Nitro-phospho-Sulpho enriched compost preparation	<ul style="list-style-type: none"> <li>Deficient in nitrogen (85%), phosphorus (40%) and sulphur (26%)</li> <li>Lack of awareness on enriched compost preparation</li> </ul>	<b>FLD - Demonstration on Nitro-phospho-Sulpho enriched compost preparation from farm wastes with training and suitable extension activities</b>

Rasipuram / Namagiripettai	Ondikadai	Vegetable- tomato	<ul style="list-style-type: none"> <li>• Crop damage,</li> <li>• Uprooting crops,</li> <li>• Yield loss</li> </ul>	OFT – Assessment of management module against Wild Boer in vegetable crops, Namakkal district
		Bhendi	<ul style="list-style-type: none"> <li>• Higher incidence of YMV</li> <li>• Fruit borer of <i>Heliothis armegra</i></li> <li>• Low yield</li> </ul>	FLD- Demonstration of IPM in Bhendi crops. Training on IPDM in bhendi, Method demonstration, Extension activity-Field day
		Tapioca	<ul style="list-style-type: none"> <li>• Existing Varieties susceptible to Cassava Mosaic Disease (99%)</li> <li>• Micronutrient deficiency ( 60%) in the early crop growth stage (2 -6 MAP)</li> <li>• Termite and Root grub incidence (20%)</li> <li>• Sole cropping (99%)</li> </ul>	OFT – Assessing the performance of ICM practices in Tapioca varieties Trainings on ICM Practices in Tapioca & Cropping system in Tapioca With suitable extension activities
		Star Jasmine	<ul style="list-style-type: none"> <li>• Weed menace in wider spaced flower crops (90%)</li> <li>• Sole cropping (99%)</li> <li>• In efficient utilization of nutrients applied to the soil</li> <li>• Yield reduction in flower crops during off season</li> </ul>	FLD - Intercropping in Star Jasmine var .Co1 with vegetables ( Radish/ French bean/Small onion ) Last year OFT converted in to FLD) Training on ICM practices & intercropping system in Flowers
		IFS	<ul style="list-style-type: none"> <li>• Progressive shrinking of farm holding and Low farm income</li> <li>• Environmental problems with animal excreta and fish pond</li> <li>• Monoculture productivity in ponds</li> <li>• migrating farm labours</li> </ul>	FLD -- Demonstration of Integrated farming of Livestock cum Fish Polyculture system to improve yield and an income source to small farmers. Training on Improved Production techniques in Polyculture methods & Feed management and practices.
Rasipuram/ Namagiripettai	Ondikkadai (Naraikinaru)	Goat production	<ul style="list-style-type: none"> <li>• Early abortions and Stillbirth in goat</li> <li>• High kid mortality rate in goat</li> <li>• Low weight gain in kids</li> </ul>	<b>FLD</b> -Demonstration of flushing in goat on reproductive performance in small ruminant production system with training and suitable extension activities
		Desi poultry	<ul style="list-style-type: none"> <li>• More external parasites</li> <li>• Anemic birds</li> </ul>	FLD - Demonstration on Efficacy of pungam oil on louse in desi chicken

			<ul style="list-style-type: none"> <li>Poor body weight gain</li> <li>Mortality</li> </ul>	
Rasipuram / Vennandhur	Moolakadu	Maize	Heavy incidence of Fall army worm throughout the crop growth stages causes yield loss	FLD- Demonstration of IPM in Maize crop. Training on IPM in Maize, Method demonstration, Extension activity-Field day
		Goat production	<ul style="list-style-type: none"> <li>Low weight gain in kids due to mineral deficiency</li> <li>Lack of scientific feeding in small ruminants</li> </ul>	OFT – Assessment of AFDT based mineralized salt lick over TANUVAS Mineral Mixture for sheep and goat on growth performance with training and suitable extension activities
Namakkal/ Mohanur/ Mohanur	Ganapathipalayam	Banana	<ul style="list-style-type: none"> <li>Deficiency of Zn (86%), B (29.5%), S (18.6%), &amp; Fe (2%), Mn (2.6%), &amp; Cu (5%)</li> <li>Fruit crack and less market value</li> </ul>	<b>OFT</b> - Assessment of micronutrient formulation on enhancement of yield of banana with training and suitable extension activities
		Dairy farming	<ul style="list-style-type: none"> <li>Lack of cultivation of leguminous green fodder</li> <li>Lack of scientific feeding of green fodder in dairy animals which leads to low milk yield and milk fat and SNF</li> </ul>	<b>FLD</b> -Demonstration of TANUVAS multi crop 10 cent fodder production model to enhance milk production and milk fat and SNF in cross bred dairy animals with training and suitable extension activities