

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

Action Plan 2020-21: Summary of Technical Activities

Technology Assessment (OFTs) 2020-21

S. No.	Crop/enterprise	Title of intervention	Technological options TO-1 TO-2 FP	Source of Technology	Status*	No. of trials	Total cost involved (Rs.)	Team members involved	No. of trials targeted in DFI village(s)	No. of trials targeted under SC-SP
1	Jute	Assessment of Jute crop varieties for alternate of Nut grass suitable for Namakkal district	<p>TO1 – Cultivation of Jute crop variety (JRC-9057- Ishani) as alternate crop for nut grass.</p> <p>TO2 – Cultivation of Jute crop variety (S-19-Subala) as alternate crop for nut grass</p> <p>FP - Cultivation of Nut grass as traditional method (Farmers practice)</p>	ICAR-CRIJAF, Barrackpore, Kolkata, 2016	New OFT	5	18500	Dr.P.Murugan Dr.N.Akila	-	1
2	Groundnut	Assessment of Aflatoxin free groundnut seed kernel production methods for quality milk production	<p>TO1 – Groundnut management practices for aflatoxin free pods production at field level (Early sowing, timely weeding, retain soil moisture tech, termintes control, soil amendments (lime application-160kg / acre), harvesting at right time, avoid pod injuries during harvesting and removal of soil from the pods)</p>	ICRISAT, 2016	New OFT	5	31000	Dr.P.Murugan Dr.N.Akila	-	1

			<p>TO2 – TO1+ Groundnut management practices for aflatoxin free pods production after harvest. (Proper drying, grading & sorting, proper storage(9%), Proper shelling, grading after shelling)</p> <p>FP - Traditional method of groundnut cultivation and oilcakes feeding to animals (Farmers practices)</p>							
3	Tapioca	Assessment of management module against wild boar of Tapioca crop in Namakkal district	<p>TO 1- Foliar spray and soil application of Herboliv⁺ @ 10 litres/ acre to control wild boar (three times in crop duration).</p> <p>TO 2 - Neelbo repellent @500 ml/2.5 litres of water and 600 feet coir rope threat soaked in solution for 8 hours tied at 1 feet as barrier of crop once in every 30 - 45 days. (Four times in crop duration).</p> <p>FP- Cultivation of crop with application of poison bait @ 5.0 kg/ acre</p>	Mivipro Products PVT, Ltd., Gobichettipalayam, Products approved by Farm Innovators meet by ICAR, 2018)	New OFT	5	24000	Dr. K.R. Pushpanathan Dr.N.Akila	1	2

4	Tapioca/ Cassava	Assessing the performance of ICM practices in Tapioca varieties	<p>TO1 – Tapioca var. YTP 2 with French bean intercropping + Foliar spray of Cassava tonic + Application of EPN infected juveniles</p> <p>TO2 – Tapioca var. H226/Co4/Sree Athulya with Bengal gram intercropping + Foliar spray of Cassava tonic + Application of EPN infected juveniles</p> <p>FP - Tapioca var. Mulluvadi with Small onion intercropping + Chemicals for Termite control</p>	<p>TNAU, Coimbatore 2019 & NIPHM Hyderabad ,2019</p> <p>CTCRI, Trivandrum, 2017, TNAU, Coimbatore, 2017 &</p> <p>NIPHM, Hyderabad, 2019</p>	New OFT	5	13500	Dr.C.Sharmila Bharathi Dr.N.Akila	1	1
5	Aggregatum onion / Small onion	Assessing the performance of Aggregatum onion var. CO 6 with ICM practices and its storage life in Namakkal District	<p>TO1 - Small onion var. Co(On) 5 + IIHR Actino bacterial consortium – Actino plus and Arka Suraksha</p> <p>TO2 - Small onion var.Co6 + IIHR Actino bacterial consortium – Actino plus and Arka Suraksha</p> <p>FP - Small onion var.Co4 + fungicides</p>	<p>TNAU, Coimbatore 2016 & IIHR, Bangalore 2018</p> <p>TNAU, Coimbatore 2020 and DOGR, Pune2019</p>	New OFT	5	21500	Dr.C.Sharmila Bharathi Dr.N.Akila	-	1
6	Tapioca	Assessment of soil test based nutrient management in tapioca	TO1 Soil test based nutrient management - Farm yard manure @ 25 t/ha +	TNAU, Coimbatore, 2020 & 2013	New OFT	5	8050	Dr.S.Sathya Dr.N.Akila	5	2

			<p>Bio fertilizers @ 2 kg/ha + Soil test based N: P₂O₅: K₂O recommendations as Urea:SSP: MOP + Foliar spray of 1% FeSO₄ + 0.5% ZnSO₄ at 60 and 90 DAP</p> <p>TO2 Recommended dose of fertilizers (Blanket recommendations) Farm yard manure @ 25 t/ha + Bio fertilizers @ 2 kg/ha + 90:90:240 kg N: P₂O₅:K₂O recommendations as 195.3 kg Urea: 562.5 kg SSP: 400.8 kg MOP + Foliar spray of 1% FeSO₄ + 0.5% ZnSO₄ at 60 and 90 DAP</p> <p>FP- Farmers practice Application of DAP as basal @ 250 kg/ha, Urea @ 150/ha & MOP @ 250 kg/ha as top dressing at 3,5,7 month after panting</p>	TNAU, Coimbatore, 2013						
7	Sugarcane	Assessment of suitable nutrient management practice in sugarcane	<p>TO1 100% RDF, Insitu mulching of trashes with application of urea @ 50 kg/ha + trichoderma viride @10 kg/ha and cowdung @ 100 kg/ha, intercropping with blackgram, application of biofertilizers @ 2kg /ha and micronutrients i.e.iron sulphate 20 kg/ha, zinc sulphate @ 10 kg/ha and borax 5 kg/ha</p>	SBI, Coimbatore, 2019	New OFT	5	7150	Dr.S.Sathya Dr.N.Akila	-	5

			<p>TO2 100% RDF, Insitu mulching of trashes with biominerlizer application @ 2 tonnes/wastes, application of biofertilizers @ 2 kg/ha, enriched sugarcane micronutrient mixture @ 50 kg/ha and foliar spraying of sugarcane booster @ 4.5 kg / ha @ 45, 60 & 75 days after planting</p> <p>FP- Farmers practice Application of DAP & MOP @ each 250 kg /ha as basal and Urea as top dressing @ 250 kg/ha, removal of residues and burning and no intercropping</p>	TNAU, Coimbatore, 2012						
8	Goat production	Assessment of AFDT based mineralized salt lick over NIANP small ruminant mineral mixture on growth performance of small ruminants	<p>TO-1 AFDT based mineralized salt lick @ 1 lick/2 goats for two months</p> <p>TO-2 NIANP mineral mixture for small ruminants @15gm/animal/day</p> <p>FP- Farmers practice Not using any mineral mixture for small ruminants</p>	TANUVAS, 2020 NIANP, 2018	New OFT	10	26,350	Dr.N.Akila & Dr.T.Hariharan	10	5
9	Dairy farming - Milk production	Assessment of feeding strategies for aflatoxin free milk production in cross bred dairy animals	<p>TO-1 Groundnut cake (GNC) based concentrate feed @ 1 kg/2.5 lit of milk production</p> <p>TO-2 Non-Groundnut cake (GNC) based</p>	TANUVAS Feed Calculator 2017 TANUVAS Feed	New OFT	5	31,500	Dr.T.Hariharan & Dr. N. Akila	-	1

			concentrate feed @ 1 kg/2.5 lit of milk production FP- Farmer Practice Feeding of commercial feed and feed ingredients contaminated with aflatoxins in cross bred dairy animals	Calculator 2017						
10	Fish Polyculture Systems	Assessment of growth performance of Pacu with catla, rohu and amur carp	T1- Composite culture of catla, rohu and Amur carp (4:2:4) T2- Composite culture of Catla, Rohu and Pacu (4:2:4) FP- Farmers practice Mrigal, catla, rohu, silver carp	FRIC, Bangalore KVAFSU – Bidar-2011 & College of Fisheries, Central Agricultural University, Tripura KVAFSU- Bidar-2016	New OFT	3	12300	Dr.S.Paulpandi Dr.N.Akila	-	-