OFT Details- 2021

Title of On Farm Trial	Problem diagnosed	Details of technologies selected for assessment/refinement	Source of Technology
Assessment of YMV Resistance Greengram Varieties in Irrigated Upland condition Greengram	Yield Loss in greengram due to YMV infection	FP- Local variety highly susceptible to YMV TO1-IPM 02-14 , Duration 60-65 days, yield potential 11-12q/ha, highly resistant to YMV TO2-IPM 512-1, Duration 60-65 days, yield potential 12-13q/ha, highly resistant to YMV, cercosphora leafspot and Anthracnose	IPM, Kanpur (2011) IPM, Kanpur (2019)
Assessment of bio-formulations against leaf blast disease of Kharif Paddy	Poor yield due to incidence of Blast Disease	TO1-Seed treatment with Jeevamruta @10% in water by soaking overnight + Soil amendment with Jeevamruta @100 lit per acre+Foliar spraying with Jeevamruta @ 10% solution in water& TO-2Spraying of Aq. Extract of Bael leaf @ 25gm/L and Steamed Aq.Extract of Tulsi Leaves @ 25g/l sprayed twice at 10 days interval	RRTTS (CZ), Bhubaneswar, 2020 NRRI,Cuttack
Assessment of IDM practices against Sheath rot disease of Rabi Paddy	Poor yield due to incidence of Sheath rot disease of Rabi	TO-1Seed treatment with P. fluorescens @ of 10g/kg of seed followed by seedling dip @ of 2.5 kg dissolved in 100 litres &dipping the seedlings for 30 minutes. Foliar spraying with Azoxystrobin 23SC @ 1 ml/liter produced highest grain yield of 49.23q/ha with minimum disease index of 1.61 TO-2Spraying of Validamycin3sl twice@2ml/lit after appearance of disease at 10 days interval produced grain yield of 47.3q/ha with disease index of 1.95	RRTTS, CHIPILIMA (OUAT)-2017
Assessment of Onion variety for better yield	Low Yield and high rotting in storage of traditional Variety N-53	FP- Most Farmers are going for N-53 TO1- Growing onion variety Bhima Shakti TO2- : Growing Onion variety Bhima Red	DOGR 2017
Assessment of Evaluation of different wilt resistant brinjal varieties	High Mortality and loss due to wilting.	FP- Most Farmers are going VNR212,218 TO1- Growing Brinjal High yielding variety Arka Harsita TO2- : Growing Brinjal Hybrid Arka Anand	IIHR-2015
Assessment of low cost feed mixtures on milk production in cows.	Low milk production in cows due to inadequate feed management	FP-Feeding straw + 5-6 kg wheat bran (100%) TO1-Straw + wheat bran (80%)+ GNOC (17%) + mineral mixture 2.5% + salt 0.5% TO2-Straw + Wheat Bran (92%) + GNOC (5%)+ mineral mixture 2.5% + salt 0.5%	ICAR-IGFRI-2017

Title of On Farm Trial	Problem diagnosed	Details of technologies selected for assessment/refinement	Source of Technology
Assessment on adoption of biofortified sweet potato varieties for nutritional security	Poor nutritional status of farming community	FP- Growing local var. Kanda **TO1** - var. Bhu krishna (purple colour, Anthocyanin-90.0 mg/100g, , Tuber yield -18 t/ha, Dry matter-24.0-25.5, Starch- 19.5 %, Total sugar-1.9-2.2%), Vine cuttings-80,000no./ha, spacing-60 c.mX 20c.m, NPK-40-80-120 kg./ha **TO2**- var. Bhu sona (Orange colur, Provitamin -A-14.0 mg/100g, , Tuber yield - 19.8 t/ha, Dry matter-27-29 %, Starch- 20 %, Total sugar-2.0-2.4%**)** Vine cuttings-80,000no./ha, spacing-60 c.m X 20c.m, NPK-40-80-120 kg./ha	ICAR-CTCRI, Thiruvananthapuram, kerela,2017