

Achievement of OFT during 2019-20

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/ Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C Ratio (if applicable)
1	Varietal performance of rice variety Dhansiri (TTB 303-1-42) for water logged areas	Lack of rice varieties for water logged areas of Tinsukia district	Variety – Dhansiri (TTB 303-1-42)) Padumoni (Check Variety)	Rice	4	Dhansiri: Days to maturity -150 days Yield- 35 q/ha Net Return- Rs. 17000 Padumoni Days to maturity -165 days Yield -37.5 q/ha Net Return- Rs. 20500	Accepted both the varieties but appreciated cooking quality of padumoni variety	Duration of the variety is 155- 165 days	1.53 1.64
2	Varietal performance of medium duration rice in rice oilseed cropping sequence	Devoid of medium duration Sali rice variety for double cropping	Rice var. Tripura Nirog Linseed var. T 396 Ranjit (Check variety)	Rice- Linseed	2	Rice Days to maturity -129 days Yield- 40.8 q/ha Net Return- Rs. 22119 Linseed Days to maturity -125 days Yield- 7.2 q/ha REY= 55.4 q Ranjit Days to maturity -150 days Yield- 45.5 q/ha Net Return- Rs. 28700	Farmers adopted the technology and ready to extend area under this cropping sequence	Tripura Nirog Variety has 128 days duration	2.22 1.76
3	Performance of multiple disease resistant tomato variety Arka Abhed	Heavy infestation of bacteria wilt, leaf curl, early blight and late blight	Variety – Arka Abhed	Tomato	4	Arka Abhed Days to maturity -148 days Yield- 68 ton/ha Net Return- Rs. 680000/- Farmers Practice Days to maturity -165 days Yield -50 ton/ha Net Return- Rs. 500000/- B: C ratio: 5.5			1.53 1.64

4	Performance of bottle gourd var Arka Bahar		var Arka Bahar		2	Arka Bahar Days to maturity -120days Yield- 25.3 q/ha Net Return- Rs. 380000/- Farmers Practice Days to maturity -110 days Yield -18 q/ha Net Return- Rs.255000/- B: C ratio: 2.8			
5	Performance of vegetable special in Okra				2	Okra with veg special Days to maturity -60 days Yield- 165 q/ha Net Return- Rs. 495000/- Farmers Practice Days to maturity -65 days Yield -152 q/ha Net Return- Rs.456000/- B: C ratio: 2.56			
6	Management of viral diseases of Bhoot Jolokia	Low yield due to Infestation viral diseases	<p>T1- Improved practice</p> <ul style="list-style-type: none"> Seed treatment with Tri Sodium Phosphate @ 0.3% by soaking the seeds for 24 hrs Weed managt. Imida-chloropid @ 1ml/lit of water Mancozeb @ 2ml/lit of water <p>T2- Farmer's practice</p>	Bhoot Jolokia	3	<p><u>Imp Technology:</u> Yield: 61.5 q/ha Gross return: 12,30,000/- Net Return: 5,50,000/- % disease incidence: 67.85</p> <p><u>Farmers Practice:</u> Yield: 52.8 q/ha Gross return: 10,56,000/- Net Return: 2,50,000/- % disease incidence: 76.00</p>		3.75 3.50	
7	Integrated pest and disease management of Tomato	Low yield due to Infestation viral diseases	<p>T1:Improved technology</p> <ul style="list-style-type: none"> ✓ Seed treatment with liquid consortia of biopesticides (@ 5ml/kg of seeds) ✓ Seed bed treatment and soil application of liquid consortia of biopesticides (@ 5ml/l of water 3 days 		3	<p><u>Imp Technology:</u> Yield: 360 q/ha Gross return: 11,87,000/- Net return: 9,50,500/- % disease incidence: 10.33 % pest infestation: 10.00</p>		5.0 4.4	

			before seed sowing (4 lit of final spray solution/m ²) ✓ Seedling dip treatment with consortia of biofertilizer ✓ Spray of liquid consortia of biopesticides @ 3ml/lit at 15, 30, 45, 60 days after transplanting T ₂ : Farmers practice			<u>Farmers Practice:</u> Yield: 310 q/ha Gross return: 11,30,000/- Net return: Rs. 8,74,500/- % disease incidence: 58.50 % pest infestation: 40.45			
8	Application of Arka Microbial Consortium (AMC) in Vegetables	Poor nutrients status of soil leads to low yield	T ₁ : Seed Treatment : 10-20 gm inoculum is Sufficient to treat 100-200 gm vegetable Seeds Main Field Application: For one acre of land, 5 kg of AMC can be mixed with 500 kg of FYM and applied near the root zone of standing crop. T ₂ : Farmers practice (Control)	Tomato Var. Arka Abhed	3	<u>Imp Technology:</u> Yield – 75 ton/ha GR: Rs.1125000/- GC: Rs.150000/- NR: Rs.975000/- <u>Farmers Technology:</u> Yield – 37.50 ton/ha GR: Rs.562500/- GC: Rs.108000/- NR: Rs.454500/-	Farmers are highly satisfied and adopted the technology		7.5 5.21
9	INM in Khasi mandarin	Poor management of nutrients leads to low yield	Soil Management (nutrient management)	Khasi Mandarin	1	In progress			
10	INM in small tea garden	Overdose of fertilizers	INM	Tea	3	Improved Practice: Yield (q/ha) : 130.05 Net return (Rs./ha) : 140075.00 Farmer Practice: Yield (q/ha) : 98.85 Net return (Rs./ha) : 98275.00	1. Soil health status has improved 2. Yield has increased than previous year		3.54 2.96

11	Efficacy of Bio-Sona for the management of Helopeltis and Looper in organic small te cultivation	Heavy infestation of Helopeltis and Looper	IPM	Tea	2	<u>Imp Technology:</u> Yield – 81.82 q/ha Net return: Rs. 122737.00 <u>Farmers Technology:</u> Yield – 60 q/ha Net return: Rs. 90000/-			Technology accepted by the farmers		2.23 1.63
12	Development of RTS drink supplemented with amla and locally available fruits	Post harvest lost is very high	RTS drink supplemented with amla		1	Parameter	T ₁	T ₂	Farmers are satisfied		
					Storage Duration	After 15 days got fermented	Good till 60 days				
					Market demand	High	Very High				
					B:C	1: 4.6	1: 4.7				
					Organoleptic evaluation						
					Colour	9	8.5				
					Taste	8.5	9				
					Appearance	9	9				
					Flavour	8	9				
					Avg. Body wt gain:						
					Age of Maturity:						
					Age at first conception:						
					Age of parturition:						
					No of kids born:						

***Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.** Give details of the technology assessed or refined and farmer's practice**