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On Farm Trials
(2012 - 2013)

On Farm Trials (Discipline-Wise Summary)

Discipline (Min.2 OFT/SMS)	Crop / Enterprise	Number of technology / Social Concept		No. of trials		% of achievem ent	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Plant Protection	Banana	1	-	3	3	100	-
	Ginger	1	-	3	3	100	
Horti.	Banana	1	-	3	3	100	-
Agro- forestry	Leuceana sp. and soybean	1	-	3	On going	-	-
	Leuceana, orange, banana	1	-	3	On going	-	-
AH & Vety	Piggery cum fish	1	-	3	On going	-	-
	Rabbitry	1	-	4	On going	-	-
Home Science	Ginger	1	-	3	3	100	-
	Baby food	1	-	5	On going	-	-
Soil Science	Rice	1	-	3	3	100	-
	Soil	1	-	3	3	100	-

On Farm Trials (Discipline-wise achievements)

Discipline: Plant Protection

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	Net return (Rs/Ha)	B:C Ratio
					Technology	Technology		
Banana	Pest infestation	Soil treatment with carbofuran@ 40g/plant treatment @ 15 days interval.	Management of stem & rhizome borer in banana	3	1. Pest incidence(8%) 2.Yield (412qtl/ha)	412 qtl/ha	4,93,000	4.94
					Farmer Practice			
					1.Pest incidence(35%) 2.Yield (368q/ha)	368 qtl/ha	4,27,000	4.41
Ginger	Disease infestation	Soil & Rhizome treatment	Management of soft rot of ginger	2	1. Disease incidence(5%) 2.Yield(154q/ha)	154 qtl/ha	1,81,000	4.62
					Farmer Practice			
					1. Disease incidence(33%) 2.Yield(121q/ha)	121 qtl/ha	1,31,500	3.63

Soil Science

Crop /Enterprise	Problem diagnosed	Technology/Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	Net return (Rs/Ha)	B:C Ratio
					Technology	Technology		
Rice	Low productivity	1) Org. manure: 5(T1) & 10 (T2) t/ha of FYM & 5t/ha. vermi. 2) 3 levels of fertilizer @ 70:35:35(T1) kg/ha of NPK with 25% (T2) & 50% (T3) increase.	Nutrient management in rice	1	1.Yield – 42.5, 43.5, 43.3, 40.7 & 46.5 qtl./ha. 2.No. of plant/sq.m-9 3.No. of tillers/pl - 43 4.No. of grains/panicle – 302 5.Plant height – 103.8cm.	46.5 qtl./ha	53,000	2.32
					Farmer Practice			
						30 Qtl/ha	30,000	2.00
Soil	High acidity	Soil treatment with cattle manure.	Effect of cattle manure on the pH of acid soil	1	1. Soil pH of amended & unamended soils (4.8 – 5.4 & 5.2 – 5.7)	-	-	-
					Farmer Practice			
					-	-	-	-

Horticulture

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	Net return (Rs/Ha) (Rs. In Lakh)	B:C Ratio
					Technology	Technology		
Banana	Low productivity per unit area of traditional system of planting	Pit size - 45x45x45, spacing - 1.2x1.8m, 110:33:33g NPK	High Density Planting in Banana	3	1.No. of hands per bunch – 9.76nos. 2. No. of finger per hand – 13.16nos. 3. Average weight of bunch – 31Kgs. 4. Yield/ha. – 496qtl/ha	Technology 496qtl/ha.	6,19,000	5.95
					Farmer Practice			
					1.No. of hands per bunch – 7.56nos. 2. No. of finger per hand – 11.16nos. 3. Average weight of bunch – 27Kgs. 4. Yield/ha. –368qtl/ha	368 qtl/ha	4,27,000	4.41
Tomato	Low yield per unit area due to high labour cost for weed	Use of weedicite metachlor for weed mangement	Weed management	2	1.No. of fruits per plant 2.Average size and weight. 3.Resistance to pest and diseases. Yield.	200q/ha	53,000	2.51

Agro-forestry

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	Net return (Rs/Ha) (Rs. In Lakh)	B:C Ratio
					Technology	Technology		
Leuceana, soybean	Soil erosion	Determination of Nitrogen fixation through Leuceana sp. and yield of crops	Intercropping of Leuceana with soybean	2	a)Seed rate – 75 kg/ha b)Yield of soybean – 22q/ha	On-going	-	-
Leuceana, paddy, orange, banana	Soil erosion	Determination of Nitrogen fixation through Leuceana sp. and yield of crops	Intercropping of Leuceana with orange, & banana		a) Yield b) Status of soil fertility	On-going	-	-

ANIMAL SCIENCE

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	Net return (Rs/Ha) (Rs. In Lakh)	B:C Ratio
					Technology	Technology		
Rabbit	Lack of enthusiasm on rabbitry.	Age at first conception, gestation period, adaptability, litter size, health.	Effect of probiotic on the performance of broiler rabbit.	4	1.Age at first conception–7 months. 2.Gestation – 33days. 3.Kindling-successful only at 3 rd conception. 4.Weight of kits-35g. 5.Litter size- 6 nos. 6.Cannibalism observed. 7.Probiotics will be given after reaching 5 weeks.	1.Kindling-successful only at 3 rd conception. 2.Weight of kits- 35g. 3.Litter size- 6 nos.	On going	-
Pig & fish	Lack of awareness in integrated approach.	Monthly growth rate in fish & pig, adaptability, health.	Piggery cum fish culture	2	1.Length of fish at stocking 1cm, stocking rate 400nos./0.06ha, growth per each month – 3cm, 5cm, 7cm, 9cm,11cm, 15cm, 18cm, 20cm, 21cm. from stocking. 2.Monthly avg. body wt. gain of pig 1.5inch, age of sexual maturity 8 months, gestation period 116 days, litter size 7 nos.	On going	NA	NA

ON FARM TRIALS (OFT)

OFT ON ANIMAL SCIENCE



1. Effect of probiotic on the performance of broiler rabbit.



2. Pig cum fish culture at Tuitlawk Farm.

HOME SCIENCE



1. Cultivation of Oyster mushroom on paddy straw.



2. Preparation & formulation of nutritious baby food.

PLANT PROTECTION



Management of soft rot in ginger.

Management of stem borer in banana.

HORTICULTURE



High density cultivation of Dwarf Cavendish.

AGROFORESTRY



Sloping Agricultural Land Technology (SALT)