

On Farm Testing 2014-15

On Farm Trials (Agronomy) (Discipline-Wise Summary)

Discipline (Minimum 2 OFT per SMS)	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Agronomy	Rice var. CAUR-4	Varietal trial of recently released rice variety CAUR-4		5	5	100	
	Blackgram var. Uttara	Varietal trial of blackgram var. Uttara		5	5	100	
	Chickpea var. JG-14	Improved cultivation practices of growing chickpea after harvesting of rice		5	5	100	
	Field pea var. Rachna	Planting of high yielding field pea Rachna after harvesting of rice at higher seed rate 100 kg/ha with optimum stubble height 60 cm		5	5	100	
	Rice-rapeseed	Application of 100% recommended dose of fertilizer (RDF:NPK 60:60:40) to rice followed by 50% RDF to rapeseed		5	5	100	

On Farm Trials (Horticulture) (Discipline-Wise Summary)

Discipline (Minimum 2 OFT per SMS)	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achieve ment	Reasons for shortfall, if any
		Assessed	Refined	Target	Achieve ment		
Horticulture	1.Cauliflower	Varietal Evaluation	-	5	5	100	NA
	2. Broccoli	Varietal Evaluation	-	5	5	100	NA
	3. Tomato	Varietal Evaluation	-	5	5	100	NA
Fishery	1. Nutrition Management	1	1	5	5	100	NA
Fishery	2. IFS Modules	1	1	5	5	100	NA

On Farm Testing (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achieve ment	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Home science	1. soyabean	1	-	1	1	100%	

On Farm Testing (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Plant Protection	1. Rice	Management of Stem borer & leaf folder by using <i>Clorantraniliprole</i> .		5	5	100	
	2. Brinjal	Management of shoot and fruit borer by using <i>rynaxypyr</i> (<i>Coragen</i> 20%).		5	5	100	
Total							

On Farm Testing

Discipline: (Plant protection)

1. Management of bacterial wilt of brinjal by the application of biofor pf.

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept
1	2	3	4
Brinjal		Bacterial wilt	1) Seed treatment with <i>biofor</i> @ 1gm/10gm seed of tomato. 2) Root treatment in 1kg /2L water. 3) 10g <i>biofor</i> mixed in 100kg dry wt. of compost.

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
5	6	7	8	9	10
Mgmt. of bacterial wilt of brinjal by the application of biofor pf.	5	1).No incidence was found in <i>biofor</i> treated plots. 2).No. of fruits/plant ranges from 30-40.	Technology Yield 12,400kg/ha	15,2000	4.94 (Demo)
		Farmer Practice	Farmer Practice		
		1. whereas In control plots Wilt incidence was observed up to 45-70%.	1. Yield =6,700kg/ha	67,500	3.22 (Control)
		2. No. Of fruits/plant declined upto 0-18.			

On Farm Testing

1. Varietal trial of recently released rice variety CAUR-4 (Eenotphou)

Discipline: Agronomy

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
Rice	Rainfed	Low lying semi-deep water condition in normal kharif planting where water depth generally goes upto 50 to 100 cm in Bishnupur district.	CAUR-4 (Eenotphou)	Varietal trial of recently released Rice variety CAUR-4	5	1. Plant height (145.5 cm) 2. Effective Tillers/sq m (218) 3. Spikelets/panicle (195) 4. Test wt.(26.9g) 5. Grain yield (4050 kg/ha).	4050 kg/ha	46000	2.31:1
						Farmer Practice	Farmer Practice		
						Akutphou	3800 kg/ha	41000	2.23:1

On Farm Testing

2. Varietal trial of blackgram variety Uttara

Discipline: **Agronomy**

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
Blackgram	Rainfed	Lack of improved high yielding variety	Uttara	Varietal trial of Blackgram var. Uttara	5	1. Plant Height (52.2cm) 2. No. of pods/plant (18.8) 3. No. of seeds/pod (5.5) 4. 1000 seed weight (50 g) 5. Seed yield (9.90 q/ha)	980 kg/ha	50158	2.73:1
						Farmer Practice	Farmer Practice		
						1a). T-9	805 kg/ha	34408	2.15:1

On Farm Testing

3. Growing of chickpea in fallow land of Bishnupur District

Discipline: Agronomy

Crop / Enter prise	Farming Situation	Proble m diagnosed	Technolog y/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/ GC)
Chick pea var. JG-14	Rainfed+ Live saving irrigation	Most of the land remain fallow during <i>rabi</i> season	Improved cultivation practices of growing chickpea after harvesting of rice	Growing of chickpea in fallow land of Bishnupur District	5	1. Plant Height (35cm) 2. No. of pods/plant (21.2) 3. No. of seeds/pod (1.6) 4. 100 seed weight (24.2g) 5. Seed yield (1125) q/ha	1125 kg/ha	49834	2.72:1
						Farmers practice			
						Seed yield	900 kg/ha	29150	2.17:1

On Farm Testing

4. Zero tillage of field pea

Discipline: Agronomy

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
Field pea var. Rachana	Rainfed	Land remain fallow during rabi season	After harvest of rice, high yielding fieldpea Rachna grown at higher seed rate 100 kg/ha with optimum stubble height 60 cm	Zero tillage of field pea	5	1. Plant Height (50 cm) 2. No. of pods/plant (26) 3. No. of seeds/pod (4.9) 4. 100 seed weight (56.3g) 5. Seed yield (985 kg/ha)	985 kg/ha	48433	2.59; 1
						Farmer Practice	Farmer Practice		
						Late sowing of field pea	750 kg/ha	12800	1.39; 1

On Farm Testing

5. Nutrient management in rice-pea cropping sequence of Bishnupur District

Discipline: Agronomy

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials
1	2	3	4	5	6
Rice- Rapeseed	Rainfed	1. Most of the rice field remain fallow during <i>rabi</i> season 2. Monocropping of rice do not have much profit to the farmers 3. Lack of proper nutrient management in cropping system	Application of 100% recommended dose of fertilizer (RDF:NPK 60:60:40) to rice followed by 50% RDF to rapeseed	Nutrient management in rice-pea cropping sequence of Bishnupur District	5
Parameters on Assessment/ Refined (Pl. mention with tick)		Prdn. per unit		Net return (Rs/Ha)	B:C Ratio (GR/GC)
7		8		9	10
1. Rice yield(4800 kg/ha) 2. Rapeseed yield (980 kg/ha) 3. Rice equivalent yield (6760 kg/ha)		4800 kg/ha; 980 kg/ha		92050	3.13:1
Farmer Practice		Farmer Practice			
Late sowing of rapeseed due to field occupied by Medium duration variety with improper nutrient management		1. Rice yield(4500 kg/ha) 2. Rapeseed yield (600 kg/ha) 3. Rice equivalent yield (5700 kg/ha)		75000	2.92:1

On Farm Testing (Discipline-wise achievements)

Discipline: Horticulture

1. Varietal Evaluation of Cauliflower

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept
1	2	3	4
Cauliflower	Irrigated	Lack of introduction of improved varieties	(1) Early Himlata (2) White shot, (3)White Island (4) White flash(4)

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)				Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
5	6	7				8	9	10
Varietal evaluation of Cauliflower	5	Technology				Technology		
Varieties		(1)	(2)	(3)	(4)	1. 225 q/ha	667500	6.5:1
Pt ht at 30 DAT (cm)		45	44	49	40.5			
No.of leaves at 30 DAT		18	15	14	14	2. 203 q/ha	580500	6.46:1
Days to 1 st curd initiation		30	35	40	37	3. 230 q/ha	676000	6.2:1
						4. 268q/ha	811000	8.3:1

On Farm Testing (Discipline-wise achievements)

Discipline: Horticulture

2. Varietal Evaluation of Broccoli

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept
1	2	3	4
Broccoli	Rainfed + Live saving irrigated	Fluctuation in yield due to lack of practical knowledge for selection of varieties	Broccoli varieties ; Everest, Harumi-188, Rs-08-14

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
5	6	7	8	9	10
Varietal Evaluation of Broccoli	5	Technology	Technology		
Varieties		Days to 1 st curd initiation	(Qt/ha)		
Everest		78 days	175	348000	4.9:1
Harumi-188		72 days	210	437500	6.0:1
Rs-08-14		65 days	168	330000	4.6:1

On Farm Testing (Discipline-wise achievements)

Discipline: Horticulture

3. Varietal Evaluation of Tomato

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept
1	2	3	4
Tomato	Rainfed + live saving irrigated	Prolonged use of same variety due to lack of introduction of improved varieties	Tomato varieties : Arka Samrat, Arka Rakshak, Arka Vikas

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
5	6	7	8	9	10
Varietal Evaluation of Tomato	5	Technology	Technology (Qt/ha)		
		Yield was only recorded	Arka Samrat -300	780000	7.5:1
			Arka Rakshak-24	600000	6.0:1
			Arka Vikash- 140	306250	3.69:1
			Farmer Practice		
			NA		

On Farm Testing Discipline: Fishery

1) Effect of feeding on growth of common carp (*Cyprinus carpio* Linn.)

Livestock	Problem diagnosed	Technology/ Social Concept
1	2	3
Fishery	Lack of knowledge on reduction of fish feeding inputs	Effect of feeding using low protein diet and high protein diet on the growth performances of common carp (<i>Cyprinus carpio</i> Linn.) in 0.1 ha against the control of no supplementary feeding

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit livestock/ enterprise	Net return (Rs/Unit)	B:C Ratio (GR/GC)
4	5	6	7	8	9
Effect of feeding on growth of common carp (<i>Cyprinus carpio</i> Linn.)	5	Fish Yield	Fish Yield		
		1. Fish Yield		220kg/0.1	1.47
		Farmer Practice	Farmer Practice		
		Fish yield	160kg/0.1 ha	160 kg/0.1 ha	1.33

On Farm Testing Discipline:

Fishery (2) Comparative Fish Yield Estimation of Fish cum Duck and Fish cum poultry Farming

Livestock	Problem diagnosed	Technology/ Social Concept
1	2	3
Fishery	Lack of knowledge on reduction of fish feeding inputs	Yield Estimation of fish Poly-culture of advanced fry of catla, rohu, mrigal and Common carp @ 6000/ ha at stocking ratio of 3:3:2:2 under Duck cum Fish Culture Pond (DP) of 0.1 ha @ 30 ducklings/ 0.1ha and Poultry cum Fish Culture Pond of (PP)in 0.1 ha @48 birds /0.1 ha

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit livestock/enterprise		Net return (Rs./Unit)		B:C Ratio (GR/GC)	
4	5	6	7		8		9	
Comparative Yield Estimation of Fish cum Duck cum and Fish cum poultry Farming	5	Assessment	Technology Fish cum Duck	Technology Fish cum Poultry	Rs./ 0.1ha Fish cum Duck	Rs. /0.1ha Fish cum Poultry	Rs. /0.1ha Fish cum Duck	0.1ha Fish cum Poultry
		1. Fish Yield (Kg/0.1 ha)	250	200	52,300	29,800	3.37	2.59
		2. No. of Eggs	6160	5760				
		3. Meat (kg)	30	41				

On Farm Testing (Discipline-wise achievements)

Discipline: Home Sc.

Crop/ Livestock /Other enterprise	Problem diagnosed	Technology/ methodology/ Social Concept
1	2	3
Soya milk	High cost of cow milk and not readily available as an when required	Whole soyabean(clean and graded 1kg) , dehulling and splitting , soaking in water (1:3)having 1 percent NaHCO ₃ ,wet grinding with hot water (1:8), boiling for 15-20 min , filtration through muslin cloth.

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Results on selected Parameters	% increase/ Change in parameters (Remark)
4	5	6	7	8
Preparation of soya milk	5	Technology / methodology	Technology / methodology	
		1. Shelf life-	1. 2days	
		2.Appearance	2.Milky white	
		3.flavour	3.Beany flavour	Satisfied but 50% are not accepted beany flavour .needs few more trails
		4.1 kg of soyabean	4.7 litres of soya milk	
		Farmer Practice	Farmer Practice	
		NIL	NIL	