

# On Farm Testing

2017-18

# 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		
Agronomy	Black scented rice Poireiton	Productivity and profitability of scented rice Chakhao (Poireiton) Technology: 1. 20cm X 20 cm 2. INM (50% RDF + 7.5 FYM t/ha)	-	5	5	100	NA
	Wheat Var. HD-2932	System of wheat intensification SWI, seed rate-25kg/ha, sowing of two sprouted seeds/hill at 20 cm x 20cm in square grid, 5 shallow irrigations at 15, 35, 60, 95 and at 105 DAS, 3 weedings using conoweeder at 20, 30 and 40 DAS	-	5	5	100	NA
Horti-culture	Broadbean	Varietal performance of broadbean var. Pusa Udit	NA	5	5	100	NA
	Tomato	Rice straw and rice husk mulches in tomato cultivation	NA	5	5	100	NA

# On Farm Testing (Summary) *Contd.*

Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Fishery	Feeding Management	1	1	5	5	100	NA
Home Sc.	Organic dye	Efficacy of natural dye from aparajita ( <i>Clitoria ternatea</i> ) on silk yarn. Extraction of dye from aparajita ,dyeing with three Mordant copper sulphate	-	5	5	100	NA
PP	Tomato	Management of <i>Helicoverpa armigera</i> by the application of newer insecticides in tomato.(Three application of <i>flubendiamide</i> 480SC @200ml/ha)	-	5	5	100	-

# On Farm Testing

## Agronomy 1: Productivity and profitability of scented rice Chakhao (Poireiton)

Crop / Enterprise	Major problem diagnosed	Severity of problem (%)	Technology (give details)	Title of OFT	No. of trials
Black scented rice Poireiton	Low yield of scented rice due to improper package of practices	80	<b>Technology:</b> 1. 20cm X 20 cm 2. INM (50% RDF + 7.5 FYM t/ha) <b>Source :</b> <i>Directorate of agriculture &amp; food production, Bhubaneswar, 2013</i>	Productivity and profitability of scented rice Chakhao (Poireiton)	5


Parameters on Assessment/ Refined (Pl. mention )	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)	Remark for recommendation for FLD
Technology	Technology			OFT to be repeated again in the next kharif season
1. Plant height (55.72 cm) 2. No. of effective tillers/m2 (8.2) 3. No. of filled grains/panicle (178.8) 4. Grain yield (3600 kg/ha)	3600 kg/ha	158000	6.6:1	
Farmer Practice (i. 20cm x 10cm, ii. RDF60:40:30 NPK kg/ha)				
1. Plant height (56.27 cm) 2. No. of effective tillers/m2 (6.8) 3. No. of filled grains/panicle (148.5) 4. Grain yield (2400 kg/ha)	2400 kg/ha	120000	4.1:1	



# On Farm Testing

## Agronomy 2: System of wheat intensification

Crop / Enterprise	Major problem diagnosed	Severity of problem(%)	Technology (give details)	Title of OFT	No. of trials
Wheat	Land remain fallow during rabi season due to fear of failure of <i>rabi</i> crop such as wheat which require heavy inputs and irrigation facilities though they are intersted to grow this crop	60	System of wheat intensification SWI, seed rate-25kg/ha, sowing of two sprouted seeds/hill at 20 cm x 20cm in square grid, 5 shallow irrigations at 15, 35, 60, 95 and at 105 DAS, 3 weedings using conoweeder at 20, 30 and 40 DAS <i>SOURCE: IARI, New Delhi 2013</i>	System of wheat intensification	5

Parameters on Assessment/ Refined (Pl. mention )	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)	Remark for recommendation for FLD
Technology	Technology			To be repeated in the next <i>rabi</i> season.
1. Plant height 2. No. of spikes/m2 3. No. of spikelets/spike 4. Grain yield	The technology could not be completed due to flood in the particular area of testing			
Farmer Practice				
1. Grain yield				



# On Farm Testing

## Hort.1. Varietal performance of broadbean var. Pusa Udit.

Crop / Enterprise	Major problem diagnosed	Severity of problem (%)	Technology (give details)	Title of OFT	No. of trials
Broad bean	Lack of cultivation of improved variety	80	Var: Pusa Udit & Local variety Seed rate : 80kg/ha Spacing : 45x15cm FYM: 10t /ha NPK: 20:50:40 kg/ha <i>Source: IARI, New Delhi 2013</i>	Varietal performance of broadbean var. Pusa Udit	5

Parameters on Assessment/ Refined	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)	Remark for recommendation for FLD
Technology	Technology	166743	3.51:1	This technology will be implemented once again for the OFT
1.Days to 1 <sup>st</sup> germination	7 days after sowing			
2. Days to 1 <sup>st</sup> flowering	60 days after sowing			
3. . Days to 1 <sup>st</sup> harvesting	90 days after sowing			
4. Average yield/ha (Qtl)	60.20 Qtl			
Farmer Practice		119518	2.60:1	
1.Days to 1 <sup>st</sup> germination	10 days after sowing			
2. Days to 1 <sup>st</sup> flowering	75 days after sowing			
3. . Days to 1 <sup>st</sup> harvesting	105 days after sowing			
4. Average yield/ha (Qtl)	47.25			



# On Farm Testing

## Hort. 2: Performance of Paddy Straw Mulching on yield of Tomato

Livestock	Major problem diagnosed	Severity of problem (%)	Technology (give details)	Title of OFT	No. of trials
	Water scarcity during Rabi season	80	Application of paddy straw @ 5t/ha after transplanting. <i>Source: MP University of Agriculture &amp; Technology, Sirohi, 2013</i>	Performance of Paddy Straw Mulching on yield of Tomato.	5

Parameters on Assessment/ Refined	Results/ observation on selected parameters	Net return (Rs/Unit)	B:C Ratio (GR/GC)	Remark for recommendation for FLD
Technology	Technology			This technology will be implemented for OFT once again
Yield/ha (Qtl)	207.12	257840	4.87:1	
Farmer Practice	Farmer Practice			
Yield/ha (Qtl)	148.00	170044	3.27:1	





# On Farm Testing

## Fishery 1. Fish Yield Estimation of Catla (*Catla Catla*) fingerling in grow out pond culture

Lives tock	Major problem diagnosed	Severity of problem (%)	Technology (give details)			Title of OFT		No. of trials
Fish ery	Dietary protein requirement for Proper growth is restricted due to following ad-hoc supplementary ad-hoc feeding	80%	Fish Yield estimation of Catla ( <i>catla catla</i> ) fingerling stocked @ 15,600/ha in 0.2 ha using concentrated floating fish feed ( 24% Protein) feeding @2% of body weight Source: College of Fisheries, Mangalore (2013)			Fish Yield Estimation of Stunted Catla ( <i>Catla Catla</i> ) fingerling in grow out pond culture .		5
Parameters on Assessment/ Refined		Results/ observation on selected parameters		Prdn. Cost Per unit crop/enterprise (Rs./0.2 ha )	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Remark for recommendation for FLD	
1. Fish yield (kgs / 0.2 ha)		Treated	3853	2,20,000	5,60,600	2.50 : 1	Recommended for FLD	
		Control	1528	1,10,000	1,65,184	1.50:1		



Providing Floating fish feed at Keirephabi Village, Moirang Sub- division




Providing Floating fish feed at Leimaram Village, Nambol Sub- division

# On Farm Testing (Discipline-wise achievements)

## Home Sc. 1: Efficacy of natural dye from aparajita (Clitoria ternatea) on silk yarn .

Crop/ Livestock /Other enterprise	Problem diagnosed	Severity of problem (%)	Technology/ methodology/ Social Concept	Title of OFT	No. of trials
Aparajita	Chemical dyes causes environmental pollution.	65-70	Extraction of dye from aparajita, dyeing with three Mordant copper sulphate SOURCE: CAU Tura College of Home Sc.	Efficacy of natural dye from aparajita (Clitoria ternatea) on silk yarn .	5

Parameters on Assessment/ Refined	Results on selected parameters (% increase/ Change in parameters )	Remark for recommendation for FLD
Technology / methodology	Technology / methodology	The results show that aparajita with ferrous sulphate have good result. This technology is consider for Fld.
1. Color	1. Grey	
2. Brightness of the color	2. Very good	
3. Color fastness to light .	3. Good	
4. Color fastness to washing . 5. Color fastness to rubbing.	4. Good 5. Good	
Farmer Practice	Farmer Practice	
Practice only chemical dye.	Nil	





# On Farm Testing

**Plant protection:** Management of *Helicoverpa armigera* by the application of newer insecticides in tomato.

Crop / Enter-prise	Problem diagnosed	Severity of problem (%)	Technology (give details)	Title of OFT	No. of trials
Tomato	Low yield due to infestation of fruit borer.	70-80%	Three application of <i>flubendiamide</i> 480SC @200ml/ha (Source: MPUAT,2013)	Management of <i>Helicoverpa armigera</i> by the application of newer insecticides in tomato.	5
			Farmers practice: Non- judicious use of insecticides.		
Parameters on Assessment/ Refined	Results/ observation on selected parameters		Net return (Rs/ha)	B:C Ratio (GR/GC)	
1.Fruit damages %. 2. Yield	1) Fruit damages ranges from 0-4%. 2)Yield: 90qt/ ha		1,35,000/-	3.0:1	
Farmer practice	1) Fruit damages recorded up to 82%. 2) Lowest yield of 63qt is recorded.		79,000/-	1.68:1	

