

Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of Suitable Tomato varieties in Late kharif season in rainfed upland of Sundargarh district
2.	Problem diagnosed	Use of local available seed, No treatment of seed & nursery bed, No use of proper covering material, poor agronomical practices
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Laxmi-5005 TO ₁ - Arka Samrat TO ₂ - Arka Rakshak Seed & Nursery bed treated with chemicals, covered with UV polythene
4.	Source of Technology	IIHR
5.	Production system and thematic area	Varietal Evaluation
6.	Performance of the Technology with performance indicators	<u>Fruit wt</u> TO1 -60g TO2- 70 g <u>Plant Height</u> TO1- 100 cm TO2- 110 cm
7.	Final recommendation for micro level situation	To be Evaluated under Front Line Demonstration
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Individual contact, Group meeting

Thematic area: Varietal Evaluation

Problem definition: Low yield of Kharif Tomato

Technology assessed: Assessment of Suitable Tomato varieties in Late kharif season in rainfed upland of Sundargarh district Table:

Results:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Fruit wt (Gm.)	Plant Height (Cm.)	Test weight						
Laxmi-5005	10	60	100		21%	314	114500	282600	168100	2.46
Arka Samrat	10	60	100		12%	366	116000	295200	179200	2.55
Arka Rakshak	10	70	110		7%	328	117000	329400	212400	2.81

OFT-2

1.	Title of On farm Trial	Assessment of Nutrient management in Sweet potato
2.	Problem diagnosed	Imbalanced application of nutrients, No use of Bio-fertilizer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	- Farmers practice TO ₁ - Soil test based fertilizer recommendation (Recommended dose of NPK @50:40: 50 kg/ha) TO ₂ . Soil test based fertilizer recommendation + soil application of Azospirillum @5kg /ha at the time of planting
4.	Source of Technology	CTCRI
5.	Production system and thematic area	Integrated Nutrient Management
6.	Performance of the Technology with performance indicators	<u>Wt. of root</u> TO1 - 133 gram TO2 - 146 gram <u>Length of the roots</u> TO1 - 17 cm TO2 - 20 cm
7.	Final recommendation for micro level situation	To be evaluated in FLD
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Individual contact, Group meeting

Thematic area:

Problem definition: Low yield of Sweet potato due to imbalanced nutrition

Technology assessed: Nutrient management in Sweet potato

Table:

Results:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Wt. of root (gm.)	Length of the roots (cm.)	Test wt. (100 grain wt.)						
Farmers practice	5	104	12		15	125	78000	187500	109500	2.40
Soil test based fertilizer recommendation (Recommended dose of NPK @50:40: 50 kg/ha)	5	133	17		14	176	92300	240000	147700	2.60
Soil test based fertilizer recommendation + soil application of Azospirillum @5kg /ha at the time of planting	5	146	20		14	160	96500	264000	167500	2.73

OFT-3

1.	Title of On farm Trial	Assessment of different pre emergence weedicide in Rabi Onion
2.	Problem diagnosed	Manual weeding
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers practice (no use of weedicide, manual weeding) TO ₁ - Pendimethalin 30 EC @5 ml/litre after planting (24-48 Hours)+ hand weeding TO ₂ - Oxyfluorfen 23.5 EC @0.5 ml/ litre after planting (24-48 Hour) + one hand weeding at 40-50 days after transplanting
4.	Source of Technology	MPKV, Rahuri
5.	Production system and thematic area	Integrated weed Management
6.	Performance of the Technology with performance indicators	<u>Weed control percentage</u> TO2-60 % TO3- 70 %
7.	Final recommendation for micro level situation	To be evaluated in FLD
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Individual contact, Group meeting

Thematic area:

Problem definition: Low yield of onion due to severe weed incidence, manual weeding is not cost effective

Technology assessed: Assessment of different pre emergence weedicide in Rabi Onion

Table:

Results:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Weed control percentage (%)	No of weeds/ sqm	Test wt. (100 grain wt.)						
farmers practice (no use of weedicide, manual weeding)	5	35	32		11	175	108000	175000	67000	1.62
Pendimethalin 30 EC @5 ml/litre after planting (24-48 Hours)+ hand weeding	5	60	8		10	198	11000	198000	88000	1.8
Oxyfluorfen 23.5 EC @0.5 ml/ litre after planting (24-48 Hour) + one hand weeding at 40-50 days after transplanting	5	70	5		10	204	111000	204000	92000	1.84

OFT-4

1.	Title of On farm Trial	Assessment of offseason (Kharif) cauliflower for WSHG members
2.	Problem diagnosed	Use of local available seed, Lack of knowledge on off season management practices
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Upland paddy TO ₁ - Early Kuanri TO ₂ - Atisighra
4.	Source of Technology	
5.	Production system and thematic area	
6.	Performance of the Technology with performance indicators	<u>Curd Weight</u> TO1- 420g TO2- 517g
7.	Final recommendation for micro level situation	Recommended
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition: Price drop of cauliflower during glut season

Technology assessed: Assessment of offseason (Kharif) cauliflower for WSHG members

Table:

Results:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Curd Weight (gm)	Length of the roots (cm.)	Test wt. (100 grain wt.)						
Upland paddy										
Early Kuanri		420				122	71000	195200	124200	2.74
Atisighra		517				150	74000	240000	165600	3.22

OFT-5

1.	Title of On farm Trial	Assessment of body weight and health condition by administrating minerals and deworming of goats
2.	Problem diagnosed	Normal grazing with household feeding
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO ₁ - farmers practice rearing of goat in normal household condition TO ₂ - Administration of deworming tablet, Multivitamin and Mineral mixture. (Fenbendazole, Belamyl and Calvimin forte)
4.	Source of Technology	
5.	Production system and thematic area	
6.	Performance of the Technology with performance indicators	Body weight TO1 :22.4, TO2:18.7
7.	Final recommendation for micro level situation	To be evaluated in FLD
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Individual contact, Group meeting

Thematic area:

Problem definition: Poor growth of goats and high morbidity

Technology assessed: Assessment of body weight and health condition by administering minerals and deworming of goats

Table:

Results:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Body weight (kg)	Length of the roots (cm.)	Test wt. (100 grain wt.)						
Farmers practice rearing of goat in normal household conditions	5	18.7				18.7	3400	10,880	7480	
Administration of deworming tablet, Multivitamin and Mineral mixture. (Fenbendazole, Belamyl and Calvimin forte)	5	22.4				22.4	4200	13160	8960	