

Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of medium rice varieties for tolerance of BPH and WBPH
2.	Problem diagnosed	BPH in Medium and late duration Rice variety
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Pooja duration-145 days TO-1- Pratikhsya- Duration 150 days, , Average yield 4.5ton/ha TO-2- Hasanta duration 145days tolerant to BPH
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Rice, Chiplima, Odisha,2015
5.	Production system and thematic area	Varietal Evaluation
6.	Performance of the Technology with performance indicators	Yield (q/ha) TO-1- 43.8 TO -2 – 45.0 Incidence of BPH TO-1- NIL TO -2 - NIL
7.	Final recommendation for micro level situation	To be evaluated again
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 due to BPH and WBPH

Technology assessed: Assessment of medium rice varieties for tolerance of BPH and WBPH

Technology assessed:

Table:

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
		No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7				4.9	20250	31850	12600	1.58
TO-1					5.6	21500	36400	14900	1.69
TO-2					6.1	22050	39650	17600	1.80

OFT-3

1.	Title of On farm Trial	Assessment of Integrated Pest Management for Thrips and mites in Chilli
2.	Problem diagnosed	Low yield of chilly due to trips and mites infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Seed treatment with imidacloprid 70%WS @12 g/kg seeds, Soil application of neem cake @2.5 qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Bifenthrin 10EC @2ml/lt & Diafenthiuron @1gm/lt alternately at 7 days interval Spiromesifen 240 SC @ 0.6ml/ lit alternately at 7days interval & Seed treatment with imidacloprid 70%WS @12 g/kg seeds, Soil application of neem cake @2.5qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Bifenthrin 10EC@2ml/lt & Spiromesifen 240 SC @ 0.6ml/ lit alternately at 7days interval
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP, VEGETABLES, BBSR-2016
5.	Production system and thematic area	IPM
6.	Performance of the Technology with performance indicators	FP- 92 qt/ha TO1-102 qtt/ha TO2-110 qt/ha
7.	Final recommendation for micro level situation	Seed treatment with imidacloprid 70%WS @12 g/kg seeds, Soil application of neem cake @2.5qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Bifenthrin 10EC@2ml/lt & Spiromesifen 240 SC @ 0.6ml/ lit alternately at 7days interval
8.	Constraints identified and feedback for research	Neem cake is costly . Blue sticky trap and spiromesifen are not available in local market

9.	Process of farmers participation and their reaction	Individual contact, Group meeting and farmers very much satisfied on this technology
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Thematic area:

Problem definition:

Technology assessed:

Table:

Technology option	No. of trials	Yield component			Parameter* no of thrips/top 3 leaves(%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7				31	92	94000	184000	90000	1.95
TO-1					19	102	96000	204000	108000	2.12
TO-2					9	110	98000	220000	122000	2.26

OFT-4

1.	Title of On farm Trial	Assessment of Bio inoculants on growth, yield of cauliflower
2.	Problem diagnosed	High cost of cultivation, less yield and low quality of curd due to injudicious application of chemical fertilizer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	T O- 1: STBF + seed treatment with (Azotobactor + PSB) 25gm/kg of seed +soil appl. with 4kg (Azotobactor & PSB) with 50kg FYM T O- 2: STBF+ seed treatment with Arka Microbial Consortium @10gm/100gm seed +soil application with 5kg AMC mixed with
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR-2012
5.	Production system and thematic area	INM
6.	Performance of the Technology with performance indicators	FP-190 qt/ha TO1-207 qt/ha TO2-221 qt/ha
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	

9.	Process of farmers participation and their reaction	
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Thematic area:

Problem definition:

Technology assessed:

Table:

Technology option	No. of trials	Yield component			Curd wt In gram	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7				400	190	80000	190000	110000	2.37
TO-1					430	207	82000	207000	125000	2.52
TO-2					450	221	84000	221000	137000	2.63

OFT-5

1.	Title of On farm Trial	Assessment of different practices to control irregular bearing habit in mango
2.	Problem diagnosed	Irregular and alternate bearing in mango causes a great economic losses to the grower
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	T O- 1: 1:1:1.5 Kg/tree (NPK) T O- 2: 1:1:1.5 Kg/tree (NPK) + Paclobutrazol @ 1 ml/ meter canopy spread in collar region
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source : CHES, Bhubaneswar; 2012
5.	Production system and thematic area	INM
6.	Performance of the Technology with performance indicators	FP-16 kg/tree TO1- 23 kg/tree TO2- 29 kg/tree
7.	Final recommendation for micro level situation	

8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology option	No. of trials	Yield component			Number of fruits/tree	Yield (kg/tree)	Cost of cultivation/tree (Rs./ha)	Gross return/tree (Rs/ha)	Net return/tree (Rs./ha)	BC ratio
FP	7				98	16	140	320	180	2.28
TO-1					136	23	195	460	265	2.35
TO-2					175	29	230	580	350	2.52

OFT-6

1.	Title of On farm Trial	Assessment of Paddy straw mushroom cultivation by using threshed straw
2.	Problem diagnosed	High cost of paddy straw and wastage of threshed paddy straw
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: Mushroom cultivation by using unbundled paddy straw of Bullock/tractor threshed (water soaking for 8hrs), paddy straw- 8-10kg, Bengalgram- 200gm, spawn-250gm, polythene TO-2: Mushroom cultivation by using unbundled paddy straw of Bullock/tractor threshed (water soaking for 5-6hrs) paddy straw - 8-10kg, bengalgram-200gm, spawn-250gm, polythene
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	KVK,OUAT,2016-17
5.	Production system and thematic area	Homestead & income generation

6.	Performance of the Technology with performance indicators	TO ₁ ,0.445 TO ₂ ,0.540
7.	Final recommendation for micro level situation	Cost effective
8.	Constraints identified and feedback for research	Without proper sterilization and soaking of straw there is rotting of bed
9.	Process of farmers participation and their reaction	Individual contact, Group meeting

Thematic area:

Problem definition:

Technology assessed:

Table:

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
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7					1.2kg/ bed	7500/ 100 bed	11800/ 100 beds	7300	1.94
TO1	7					0.445kg/ bed	4500/ 100 beds	9900/ 100beds	4400	2.22
TO2	7					0,540kg/ bed	4500/1 00 beds	11520/ 100 beds	7020	2.56

OFT-7

1.	Title of On farm Trial	Assessment of preparation of tomato powder
2.	Problem diagnosed	Massive wastage of tomato during peak season, low price and non availability of storage space.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1 Preparation of tomato powder under sun drying (slicing of tomato to 5 mm. thickness, dehydrating under sun for 5-6 days, grinding and packaging) TO 2 Preparation of tomato powder in solar Dryer (slicing of tomato to 5 mm. thickness, dehydrating in Trays of solar dryer for 7-8hrs, grinding and packaging)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TNAU, 2015
5.	Production system and thematic area	Homestead, Value addition

6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Preparation of tamato powder in hygienic condition and proper packaging increases self life period of the product
8.	Constraints identified and feedback for research	Inclement weather condition(cloudy and rainy days) causes mould growth
9.	Process of farmers participation and their reaction	Individual contact, Group meeting

Thematic area:

Problem definition:

Technology assessed:

Table:

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
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7					Raw selling	250/100kg	500/100kg	250/100kg	2
TO1	7					50gm/kg	460/100kg	1000/100kg	640/100kg	2.43
TO2	7					70gm/kg	460/100kg	1400/100kg	940/100kg	3.04