

OFT-5

1.	Title of On farm Trial	Effect of different doses of plant growth substances on the seed yield of Aman paddy during Kharif season.
2.	Problem diagnose	Low yield of Paddy
3.	Details of technologies selected for assessment/refinement	Farmers practice: Farm Yard Manure 5 ton/ ha Technology Option-I: Spraying of Humus @ 1.5ml/lit, at 15,30,45,DAT Technology Option-II: : Spraying of 3.5% Alfa NAA(sodium Salt) @ 5 ml/lit, 42 DAT
4.	Source of Technology	SAU
5.	Production system and thematic area	Rain fed small production system and Nutrient management
6.	Performance of the Technology with performance indicators	Technology option –II showed best result in relation to the yield, Plant height, , net return and B: C ratio.
7.	Final recommendation for micro level situation	It is may be recommended that the Technology option –II may be accepted for yield increment and income(Yield-47.5q/ha and Net income-27300.00)
8.	Constraints identified and feedback for research	It is may be recommended that the Technology option –II may be accepted for yield increment and income
9.	Process of farmers participation and their reaction	Collaborative, Farmers are happy with the performance of recommended practice

Thematic Area: Nutrient management

Problem definition: Low yield of Paddy due to scarcity of nutrient

Technology assessed: Effect of Growth substances to augment the yield of Aman paddy production

Table-2 Performance of growth substances to enhance the yield of Aman paddy during Kharif season season.

Technology option	No. of trials	Yield component			Disease/ insect pest/weeds incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Av Plant height	No of Tillers	Wt of seed/1000no						
Farmers practice: Farm Yard Manure 5 ton/ha	10	105	14	36	-	39.4	23220.00	43340.00	20120	1.86
Technology Option-I: Spraying of Humus @ 1.5ml/lit, at 15,30,45,DAT	10	108	16	39	-	43.2	24430.00	48500.00	24070	1.98
Technology Option-II: : Spraying of 3.5% Alfa NAA(sodium Salt) @ 5 ml/lit, 42 DAT	10	112	21	42		47.5	27300.00	54600.00	27300	2.00

Result: Technology option-II showed better yield (47.5q/ha) ,Av. height ,No of tillers and wt of seed per plant was increased Net return (Rs.27300.00/ha) and BC ratio (2.00.) was also higher than other treatments.