

OFT-6

1.	Title of On farm Trial	Effect of different doses of Sulphur on the seed yield of Sunflower during Rabi season
2.	Problem diagnose	Low Yield of sunflower
3.	Details of technologies selected for assessment/refinement	Farmers practice: Farm Yard Manure 5 ton/ha Technology Option-I: spraying of sulphur 80wp @ 2 gm/lit, at 42 DAS Technology Option-II: spraying of sulphur 80wp @ 3 gm/lit, at 42 DAS
4.	Source of Technology	ICAR research
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, diameter head , 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-17.7q/ha and Net income-29980.00)
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 Sunflower due to scarcity of macronutrient.

Technology assessed: Effect of Sulphur nutrient to augment the yield of sunflower production

Table-2 Performance of Sulphur to enhance the yield of Sunflower during rabi 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	Diameter of head	Wt of seed/Head						
Farmers practice: Farm Yard Manure 5 ton/ha	10	120	13	158	-	13.7	29830.00	55800.00	24030.00	1.87
Technology Option-I: spraying of sulphur 80wp @ 2 gm/lit, at 42 DAS	10	119	15	187	-	15.9	33520.00	65600.00	31100.00	1.95
Technology Option-II: spraying of sulphur 80wp @ 3 gm/lit, at 42 DAS	10	117	19	214		17.7	33700.00	69200.00	29980	2.05

Result: Technology option-II showed better yield (17.7q/ha), Av. height, head diameter and wt of seed per plant was increased Net return (Rs.29980.00/ha) and BC ratio (2.05.) was also higher than other treatments.