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Enhancing Farmer's Income through Integrated Farming System

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INTRODUCTION

Name of farmer	Prahlad Ram		
Fathers name	Goverdhan Ram		
Village	Inana		
Block	Mundwa		
District	Nagaur		
State	Rajasthan		
Age	41		
Education	8 th		



1. Situation Analysis:

He has 1.95 ha cultivable land, 22 years of experience in traditional farming and before the intervention of Krishi Vigyan Kendra, Nagaur-I, he is earning around Rs 1.5 lakh per year from agriculture and allied activities.

2. Technology, Implementation & Support:

After getting aware about Integrated farming system model at their farm from Krishi Vigyan Kendra, Nagaur-I and scientific cultivation of horticultural as well as agricultural crops with management of animals through off-campus trainings which covered all the farm operations from land preparation and nursery management to harvesting of field produce, and proper management practices of animals such as milking methods, vaccination schedules etc. KVK scientists encouraged farmer for balanced use of fertilizers. He also has an orchard of ber, nutri-garden and grows seasonal vegetables for family consumption. He gets income by sale of extra vegetables.

Components of IFS model in detail

- 1. Crop based farming system: Around 0.9 ha area is being utilized for cultivating Mung bean (Variety MH-421) in Kharif season and 0.9 ha area of Cumin (Variety GC-4) cultivation in Rabi season.
- 2. **Horticulture based Farming:** One ha area under Ber orchard (Variety-Gola, Umran). He gets around Rs. 48,600/per annum by sale of ber.
- 3. **Livestock based Farming:** He has Buffalo-Cows unit with 2 milch buffalo and 2 milch cows. Mineral mixture was given to cattles to increase milk production.
- 4. **Nutri-garden:** He developed a nutrigarden in the area of 500 square

- meters. He grows 10-12 seasonal vegetables. He uses vermi-compost in the kitchen garden while land preparation. He gets around Rs. 6550/by selling extra vegetables per annum.
- 5. He prepares vermi-compost using available farm waste, kitchen waste and cattle dung. He is continuously improving soil health of his farm using vermi-compost. It helps to meet the nutrient requirement of farm, orchard and nutri-garden and also helpful to reduce the dependence and cost on chemical fertilizers.
- 6. He is using drip irrigation and mulching in cumin crop, all the vegetable crop in order to water and input efficiently.

Economics of Integrated Farming System model

		Area	Production	Cost of	Gross	Net	B:C
S.No.	Components			Cultivation	Income	Income	Ratio
		(ha)/No	(Q/Liter)	(Rs.)	(Rs.)	(Rs.)	
1.	Mung bean	0.9	8.15	19990	58611.4	38621.4	2.93
2.	Cumin	0.9	9.45	35975	141750	105775	3.94
3.	Ber	1.0	55.40	34500	83100	48600	2.41
4.	Buffalo	2	2825	50850	113000	62150	2.22
5.	Cow	2	1715	18865	60025	41160	3.18
6.	Nutri-garden	0.05	2.9	3600	10150	6550	2.82
Total			163780	466636.4	302856.4	2.85	

Technology uptake & benefit: Shri Prahlad Ram adopted the balanced dose of fertilizer in Mung bean, Cumin, ber and mineral mixture for Buffalo and Cows as per suggestion of Krishi Viyan Kendra scientists during the year 2021-22. He was advised to sow latest improved improved variety with proper seed rate along with use of balanced fertilizers and timely management of weeds, irrigation, insect and pest in crops and Ber orchard for better growth and development of crop. Under Integrated Farming System practices got net return of Rs. 302856.4 and B:C ratio 2.85

Technology spread: This technology may be capable for increasing seed replacement ratio in district with extra net return. The progressive farmer Shri Prahlad Ram distributed seed from Mung bean and Cumin crop production among 55 to 65 farmers in nearby villages. Thus the farmer provided breakthrough in horizontal expansion of this improved variety and helped in increasing the productivity of the farmer.



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Cultivation of Cumin



Cultivation of Kachri



Nutri-garden



Buffalo unit



Farm pond