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CASE STUDY ON INTEGRATED FARMING SYSTEM (IFS) UNDER NICRA PROJECT

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Introduction:

Name of Farmer : Dinesh S/o Ramkishor
Age : 32
Address : Village-Deshwal Block-Merta city,
Dist.- Nagaur, Rajasthan, Pincode-341514
Land Holding : 2.5 ha.
Livestock : 2 Buffalo



Technology demonstrated:

Improved variety of different crops like Pearl millet, Cluster bean and Cotton, vaccination of buffaloes and Nutri-garden kit for *Kharif* season under Integrated Farming System (IFS)

Problem identified:

Low yield of kharif and rabi crops, water scarcity, lack of awareness about vaccination of animals and innovations in agriculture sector& importance of Integrated Farming System (IFS).

Description of technology:

Nutri-garden- He grows improved seeds of different vegetable crops in nutri-garden like cowpea (CP-6), Okra (Arka Anamika), Cluster bean (PusaNavbahar), Spinach (All Green), Pumpkin (Chakaiyan), Bottlegourd (Pusa Naveen), Amaranthus (Green type), Sponge gourd (K. Divya), Bitter gourd (Jaunpuri), Chilli (PusaJwala), Brinjal (P.P.L), Tomato (S-22), Drumstick (PKM-1).

Crop based farming system- he is cultivating Pearl millet, Cluster bean and Cotton in *kharif* season.

Livestock based Farming- He has 02 Buffalo. Mineral mixture was given to cattles to increase milk production.

Trainings - Shri Dinesh participated in programmes organized by Krishi Vigyan Kendra, Nagaur-I under NICRA Project on cultivation of different *kharif* and *Rabi* crops and cattle feed and fodder management, care of the cattles, nutri-garden management etc. The KVK scientists encouraged the farmer for soil testing and use of organic manures and also farmer were advised for adoption of Integrated Farming System.

Training programme organized by KVK-Nagaur-I under NICRA



Field day organized on Pearl millet (HHB-299) crop by KVK - Nagaur-I under NICRA



Field day organized on Cluster bean (RGC-1033) crop by KVK - Nagaur-I under NICRA



Impact of intervention:

Increase in income due to Integrated Farming System (IFS).

Farmer is getting more profit and his socio-economic status improved.

Consumption of vegetables per capita per day is increased.

How the interventions minimized the impact of climate variability:

Drought tolerant varieties of these crops give better yield in adverse climatic condition.

Yield and Economics:

S. No.	Components	Area (ha/No.)	Production (Q/L)	Cost of Cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C Ratio
1	Pearl millet	0.6	17.85	21500	39270	17770	1.83
2	Cluster bean	0.9	11.95	26750	64530	37780	2.41
3	Cotton	1	21.45	43250	171600	128350	3.97
4	Buffalo	2	2420	44700	96800	52100	2.17
5	Nutri-garden	0.05	2.9	3150	7250	4100	2.30
Total				139350	379450	240100	2.53
