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Diversification and Innovation: Jainarayan's Model for Sustainable Farming

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The integration of crops, animal husbandry as well as multiple agribusinesses has great potential for the farm economy. Beside farmers' incomes, these firms also created an increase of family labor employment. This approach to farming processes is achieved using the integrated agricultural system method, which allows both higher crop production and optimal management of resources in agriculture. An integrated stand-by system has the ability to recycle farm waste more effectively for economic profit. A judicious mix of agriculture including dairy etc., suited to the agro-climatic regions of the farmers and their socio-economic status will bring prosperity in agriculture. Non-rural farming with animal husbandry also results in additional income and employment opportunities throughout the year, and excrement is a very good fertilizer for agriculture.

Mr. Jainarayan S/o harchand Singh is a progressive farmer which belong to village Thilod, District Bhiwani Haryana and Studied up to 8 standard. His aged 60 years old and He has a family that includes two sons and One daughter. He owns 10 acres of land. Jainaryan's tale is one of perseverance, determination, and success achieved via agricultural ingenuity. Jainaryan has revolutionized his life and farm through hard effort, family teamwork, and smart farming practices.

A Family-Centred Farming Approach

Jainaryan's farming operations are assisted by his two sons and a daughter. They work together to maintain their farm, combining contemporary horticulture techniques with ancient farming expertise. Despite his little formal education, Jainaryan sought expertise and support from government organizations, particularly the KVK (Krishi Vigyan Kendra) at Chaudhary Charan Singh Haryana Agricultural University and the Bhiwani Horticulture Department.

Diversification in Horticulture

Jainaryan expanded beyond traditional farming and into horticulture, planting lemon, mosambi (sweet lime), and Hisar Safeda guava on his 1-acre orchard. He achieved optimal growth and yield by placing plants 10 x 20 feet apart. His orchard produces fruits twice a year, providing consistent revenue.

Fruit Production and Income

• Produced 2,750 kg of lemons at a rate of ₹40 per kg, earning ₹110,000 in total.
• Mosambi produced 8,800 kg at a rate of ₹20 per kilogram.
Total earnings are ₹176,000.
• Hisar Safeda produced 8,800 kg of guava at a rate of ₹50/kg.

Total earnings are ₹440,000.
Jainaryan makes ₹726,000 per year from his orchard, farming high-value fruit crops.

Vegetable Farming: Increasing Land Productivity

Aside from horticulture, Jainaryan cultivates a diverse range of vegetable crops, including carrot, radish, onion, cucumber, bottle gourd (ghia), and bitter gourd. He maximizes productivity by using high-yielding varieties such as Syngenta Everywhite radish, Arjun cucumber, and Nunia ghia. His diverse vegetable growing complements his fruit crops, ensuring that his farm is lucrative all year.

Vegetable Production and Income

• Carrot production is 100 quintals.
Rate: ₹10 per kilogram.
Total earnings are ₹100,000.
• Radish (Variety:- Syngenta Ivorywhite): 100 quintals.
Rate: ₹10 per kilogram.
Total earnings are ₹100,000.
• Cucumber (Variety- Arjun 36): 180 quintals (per ½ acre).
Rate: ₹10 per kilogram.
Total earnings: ₹180,000.
• Onion (Haryana): 150 quintals (2 acres)
Rate: ₹15 per kilogram.
Total earnings are ₹225,000.
• 200 quintals of bottle gourd (Variety Nunia) grown on a half-acre plot.
Rate: ₹10 per kilogram.
Total earnings: ₹200,000.
Jainaryan's method to farming has increased his annual profits from veggies to ₹805,000, in addition to his fruit revenue.

Fertilizer and Irrigation Management

Jainaryan's success is also due to his efficient utilization of resources. He fertilizes with NPK (2 bags per acre) and vermicompost (5 bags each crop sowing) to enhance the soil. His drip irrigation method maximizes water efficiency, while a combination of surface irrigation and canal/tubewell water helps his crops throughout important growth periods.

Crop Rotation: Wheat, Mustard

To supplement his income, Jainaryan plants wheat and mustard on 2 acres each, utilizing a sustainable crop rotation technique. This method not only enhances soil health but also provides a consistent stream of income during the off-season for his horticulture and vegetable crops.

Support from government agencies and institutions

Jainaryan actively works with agricultural professionals. His contacts with the KVK (Chaudhary Charan Singh Agriculture University), the Bhiwani Horticulture Department, and professionals such as Sunil Kumar from the Tosham Horticulture Department have all helped him increase the output of his farm. He often attends workshops and training sessions to stay up to speed on new farming techniques.

Awards & Recognition

Jainaryan's unwavering pursuit of horticultural perfection gained him accolades from the Bhiwani Horticulture Department, which praised his innovative procedures and high output.

His farm has become a model for other farmers in the area, and many come to learn about his ways.

Conclusion: A Model for Success

Jainarayan's journey from a small-scale farmer to a successful horticulturalist exemplifies the power of integrated farming. Through his dedication, innovation, and effective resource management, he has transformed his farm into a thriving agricultural enterprise. His story serves as an inspiration to farmers seeking to increase their income, improve their livelihoods, and contribute to sustainable agriculture. Jainaryan's narrative is about vision and hard effort. From a modest village farmer to a successful horticulture, he has used contemporary technology, diverse crops, and his family's support to change his life. His commitment to education, sustainable farming, and increased productivity continues to inspire farmers in Thilod and the neighboring areas.