

Crop livestock based integrated farming system: A case study of progressive farmer

Dr Vivek Pratap Singh, SMS Animal Science

Mahayogi Gorakhnath Krishi Vigyan Kendra, Gorakhpur

Introduction: Mr. Vishnu Pratap Singh Vill.- Malour, Post- Pali, Block- Pali, District- Gorakhpur, size of land holding 6 Hectare. His aged 72 years old and qualification has Graduation. The Village Malour located in 25 km away from District Headquarter and 18 km from MGKVK Chaukmafi. Presently he is a role model for farmers to get additional income by seed production. His income ranged from 13 -15 lakhs annually from Livestock and rice-wheat-cropping system. He got several awards by Govt. department/NGOs/Private organization at District, state and national level. He is also running a Farmers Producer Company.

Plan, implement, support and linkage with MGKVK: Mr. Singh came in contact with the Animal Scientists of Mahayogi Gorakhnath Krishi Vigyan Kendra and showed his keen interest in seed production of Kalanamak and small-scale dairy farming. By taking the technical knowledge from KVK scientists. He started seed production from 13 acre, dairy with 2 milking cow (now 8), 0.5 acre area under horticultural crops, 0.5 acre fodder and 01 acre area under oilseed and pulses. Now he is earning up to Rs. 15 lakh/annum by selling seed and milk. He is also established backyard poultry farming.

Output: Total annual cost of seed and production =Rs.3.05 lakh

Total annual income from seed and grain = 10.49 lakh

Total annual income from dairy farm = 0.80 lakh

Outcome-Annually profitable income:

Total annual profitable income = Rs. 3.05 lakh + 10.49 lakh + 0.80 lakh = Rs. 14.34 lakh /year

Outcome: After getting good return from seed and livestock, he added in farming system. In this way he got more profit and their socio-economic status are increasing among the farmers. These enterprises are not only the good source of good income but also generating the employment to the farmers.

Impact: Mr. Vishnu Pratap Singh is one of the progressive and learned farmers to others with regards to popularization of Kalanamak seed production. This technology helps him for livelihood, empowerment. Now this technology is adopted by farmers by seeing and believing in nearby villages.



Poultry cum crop production system: A good source of income and employment

Dr Vivek Pratap Singh, SMS Animal Science

Mahayogi Gorakhnath Krishi Vigyan Kendra, Gorakhpur

Introduction: Mr. Manoj Kumar Singh Vill.- Pachgawan, Post- Badhya chauk, Block- Jungle Kaudiya, District- Gorakhpur, size of land holding 2 Hectare. His aged 35 years old and qualification has Graduation. The Village Pachgawa located in 30 km away from District Headquarter and 5 km from MGKVK Chaukmafi. His income ranged from 1.5 -2.0 lakhs annually from rice-wheat –cropping system and was not sufficient for their 08 members family needs.

Plan, implement, support and linkage with MGKVK: In year 2018 he participated in trainings organized on Scientific poultry farming by Mahayogi Gorakhnath Krishi Vigyan Kendra, Gorakhpur (UP). After that of he created awareness to start lard scale poultry farming as an enterprise and in guidance of KVK Animal Scientist he established 1500 capacity broiler and 1000 Desi (Kadaknath, Turkey, Banraja and Aseel) well developed poultry farm and 4.5 acre area under crop production. Now he is earning up to Rs. 8.50 lakh/annum by selling poultry and crop production (Paddy Wheat). Poultry farming integrated along with crop production made better utilization of resources, substantially with proper nutrition, diseases control and management provides more profitable income.

Output: Total annual cost of 11700 birds (1300 birds/batch of 9 batch/year) =Rs.15.3 lakh
Total annual income from poultry farm = 3.70 lakh
Total annual cost of 3000 Desi birds (1000 birds/batch of 3 batch/year) = 4.50 lakh
Total annual income from Desi poultry farm = 1.65 lakh
Total annual cost of crop production in 4.5 acre/year) =Rs.1.00 lakh
Total annual income from paddy/wheat = 3.10 lakh

Outcome-Annually profitable income:

Total annual income from broiler poultry farm=Rs. 3.70 lakh
Total annual income from Desi poultry =Rs. 1.65 lakh
Total annual profitable income = Rs. 3.70 lakh +1.65 lakh + 3.10 lakh = Rs. 8.45 lakh /year

Outcome: After getting good return from poultry, he added in farming system. In this way he got more profit and their socio-economic status are increasing among the farmers. These enterprises are not only the good source of good income but also generating the employment to the farmers.

Impact: Mr. Manoj Kumar is becoming one of the progressive and learned farmers to others with regards to popularization of Desi and Broiler farming. This technology helps him for livelihood, empowerment. Now this technology is adopted by farmers by seeing and believing in nearby villages.



Nutritional kitchen gardening-A success story of innovative farmer

Dr Vivek Pratap Singh, SMS Animal Science

Mahayogi Gorakhnath Krishi Vigyan Kendra, Gorakhpur

Situation analysis/ Problem statements: Adequate nutrition is very important during all the stage of life, as healthy life cannot be sustained without adequate nourishment. Deficiency diseases caused by micro nutritive is one of the serious problems. Nutritional deficiency is most prevalent in rural areas where the habitual diet lacks variety and people cannot afford to diversify their diets and unable to include fruit and vegetables in their diet. The sustainable solution to their problem lies in the improvement and diversification of household diet by growing kitchen gardening.

Plan, implement, support and linkage with MGKVK: The main objective of these kitchen gardens is to provide good nutritional vegetables to the family members because in the present scenario it is hard to attain such vegetables. Preparing such kitchen garden in the village makes availability of all types of vegetables in the village. Mr Vishnu Pratap Singh is successful backyard Kitchen gardener and backyard poultry farmer from Malour village within Pali block of Gorakhpur district in Eastern Uttar Pradesh, started kitchen gardening in 2018 very small area (0.13 ha). He did not have prior more knowledge of kitchen gardening. Mr. Singh came in contact with the Animal Scientist of Mahayogi Gorakhnath Krishi Vigyan Kendra and showed his keen interest in kitchen gardening and other technical support from the scientists. He is hard working farmer and he is able to grasp the technologies faster and adopt it.

Output: The detailed components of kitchen garden model were demonstrated, constant follow up visits, trainee visits, field days, farmers days and other extension activities has been concentrated. Initially, he was adopting kitchen garden with constant encouragement, KVK scientist are successful in building up confidence in them. Now he is happy to enhance the nutritional affordability for his family. These kitchen gardens are meant to increase food diversity in the diets of the participating families and reduce reliance on the market for introduced vegetables and fruits. Really, he developed a beautiful and attractive kitchen garden with the help of KVK scientist.

Outcome: According to Mr. Singh, the kitchen garden has been impactful for his family and in his village as well as other villages of district. There is seen increase in the Micro monthly savings which has led to financial stability. His family gets proper nutritional balanced diet that consists of green vegetables like root crop, leafy vegetables, Okra, Bitter guard, Bakala, Cowpea, Cluster bean, French bean, Cucumber, Pumpkin, Bottle guard, Parwal, Drumstick, Brinjal, Chilli, Tomato, coriander, carrot, radish etc. He also planted fruit plants such as Banana, Mango, Guava, lemon, Malta, Grapes, Peach, Falsa, Papaya, Ber, Pomegranate and Litchi. Mrs. Singh proudly claimed that the vegetables and fruits grown in the garden were being utilized in recipes within their home. Additionally, he said the quantity was more than sufficient for the foods to be distributed equally for the whole family. Now he is happy to enhance the nutritional affordability for his family and earn an addition income from sale of surplus produce. The intervention has also been successful in reducing reliance on the market.

Impact: Now he became a motivator for many of farmers in the district. He adopted the technology and he produce year-round fruits, vegetables and poultry product. He was also found to actively guide other farmers in adoption of new technologies. With his intervention they have started to grow different vegetable crops in a season in the village and as a result they are realizing better price in the market. The key to his success seems to his eagerness to learn and understand very soon, hard work & positive attitude. He is a model farmer.

