

Crop and Variety: Horticulture Based Integrated Farming System

Name of farmer & Address: Shri. Vinod Sitaram Patil
At.Po- Chougaon Tal- & Dist. Dhule

Total Cultivable Area – 2.8 ha

Irrigation Source – Well (Year round irrigation)

Assets and Vehicle – Motor cycle, Power sprayer, Bullock operated Farm implements and *Kaccha* Constructed house

Situation Analysis:

- Chougaon is an operational and irrigated village under jurisdiction of KVK-Dhule.
- The village was surveyed for technologies adopted by the farmers, potential skills and skill gaps.
- The cropping pattern and farming systems were observed and recorded.
- The village was asses based on farming system and current and potential income through various farm based enterprise.
- Spending pattern of village was also documented.
- Natural resources available in the village were studied.

Plan, Implementation and Support:

- Farmers having orchard in the farmers were selected.
- The cropping pattern were modified by imparting skills through trainings for cultivating crops for higher income.
- The forward linkages were liasoned for the marketing.
- The beneficiary farmers were support with the seed and technical know how of crops such as, tomato, drumstick, okra, etc

Cultivation of Drumstick -

- With first hand training beneficiary farmer propogated Drumstick “Co-1” during Kharif 2017.
- Plantation of Drumstick at 10x10 ft along with pruning techniques encompassing ; pinching at height at 3 ft and keeping four branches in four direction.
- Use of 10 kg FYM, 75:50:75 kg NPK during propogation and subsequent application of Nitrogen in split doses during flowering.
- Two hand weeding and earthing up after second dose of fertilizer application.

Cultivation of Rabi onion for Storage –

- The beneficiary farmer was consulted for cultivation practices of Rabi onion for storage.
- Use of 100:50:50 kg NPK; Nitrogen in two split doses.
- No use of N after 60 DAS. Use of Sulphur as per soil test
- Use of Carbendazim spray fortnight prior to harvest
- Harvesting of onion only after 50 % leaf fall.
- Proper curing after harvest and storage.

Institutional Involvement:

- The beneficiary farmer was part of OFT on Okra “PhuleVimukta” During Kharif 2016-17 Conducted by KVK-Dhule
- The farmer also took part in OFT on Tomato “ ArkaRakshak” during Kharif 2017-18
- The farmer was trained to get acquainted with production practices of “ Drum Stick”. Based on the training beneficiary farmer propagated Drumstick in June 2017.
- The farmer regularly consulted Scientist at KVK-Dhule for various technological backstopping for Onion, Brinjal, Tomato, Radish and Drumstick.

Output:

| Farming System | Total Area (ha) | Percentage of Area | Net Income (Rs) | Percentage Of Total Income |
|---|-----------------|--------------------|-----------------|----------------------------|
| Horticulture Fruits – Sapota, Custard Apple, K.Lime, Drumstick | | | | |
| | 1 | 35.71 | 351000 | 45.26 |
| Hort. Veg- Kharif – Brinjal, Rabi-Onion, Summer – Okra and Radish | | | | |
| Kharif Vegetable | 0.20 | 7.14 | 19300 | 2.48 |
| Rabi Vegetable | 1.20 | 42.85 | 275000 | 35.47 |
| Summer Veg | 0.60 | 21.42 | 51000 | 6.5 |
| Dairy – Cow-1, Goats – 4, Bullocks -2 and Poultry – Hens – 300, Satpuda& Quils-200 | | | | |
| Dairy & Poultry | 0.20 | 7.14 | 50000 | 6.44 |
| Agronomical Crops – Kharif – Maize & Bajara and Rabi- Wheat | | | | |
| Kharif 18 | 1.2 | 42.85 | 20000 | 2.58 |
| Rabi 18 | 0.4 | 14.28 | 9000 | 1.16 |

Outcome:

- Due to intervention of Krishi Vigyan Kendra –Dhule with various technological input through FLD and OFT and moreover guidance of Scientist of KVK, the cultivation of high remunerative drumstick cultivation had significantly spread over 35 ha in Chougaoon village. Rural youth had started to entrust faith in Horticulture Based Integrated Farming System which is more remunerative and income generating activity.
- The support of other agro based enterprises such as poultry, quils farming and moreover vegetable cultivation has significantly enhanced income to Rs. 450000/- per year.

Impact:

- Intervention of KVK with the intention to promote integrated farming system has commenced from couple of years. Being the short history to promote IFS in village Chougaoon a significant impact is gradually seen.
- However for large scale adoption of farming system there is need to carryout activities in IFS in village for singinificat 5 years tenure.

Photographs



KVK Scientist in Beneficiary Farmers
Shri.VinodPatil, Brinjal Field



KVK Scientist Imparting Pruning Technology in
Drumstick to Beneficiary Farmer



Beneficiary Farmer of Tomato ArkaRakshak OFT
VinodPatil with Scientist –Hort of KVK Dhule



Shri. Vinod Patil as a Participant in Skill Training on
Procedures and Standards for Vegetabel Export

Krishi Vigyan