

Reaping success through machan cultivation

S. P. Singh¹, S. K. Tomar² and S. K. Singh³

¹Scientist (Hort.), KVK Belipar, Gorakhpur

²Senior Scientist and Head KVK Belipar, Gorakhpur

³Scientist (AS), KVK Belipar, Gorakhpur

A CASE STUDY

Introduction

Mr. Anand Kumar Nishad is a 50 years old marginal farmer of Village- Pavenpur, Block- Piprouli, District- Gorakhpur. He is owner of only 30 decimal (0.30 acre) land and 1.0-acre land taken on lease at Rs. 20000 for one year. He has 7 family members with 4 girls and 2 boys. Mr. Anand is illiterate but his all girls studying in B.A., B.Sc., Intermediate and 10th class respectively and both boys also studying in B.A. & ITI and 6th class. Mr. Anand growing of vegetable only i.e., cucurbits, carrot, radish, beetroot, spinach, fenugreek etc.

Interaction with KVK

Mr. Anand attended trainings at KVK and selected by KVK for demonstration and provided improved varieties of vegetable seeds and technology. He earned a good yield hence for further doing something new, he contacted to Dr. S. P. Singh, Scientist (Horticulture) KVK Belipar, Gorakhpur. He discussed about low yield and net return from vegetable production therefore, KVK scientists suggested him to adopt off season and early cultivation of vegetable crops with improved technologies for quality-based production.

Innovativeness

Mr. Anand is hard working farmers and he is able to grasp the technologies faster and adopt it. He is actively involved in all day to day working of farm and marketing. After training at KVK, he was able to identify insect pest of cucurbits, onion, radish etc. and their management practices. He is actively guided to other farmers in adoption of new technologies.

Mr. Anand's field divided in two parts one part of size 1.0 acre which is use cultivation of bottle gourd, sponge gourd and bottle gourd in relay cropping with machan technology and Another 30 decimal (0.30 acre) area use for cultivation of short duration vegetable crops for earning daily income to fulfil the basic needs of family members.

Table -1 Economics of 1.0 Acre field

Duration	Crops	Production (q)	Cost of Cultivation (Rs.)	Net return (Rs.)
March - September	Bitter gourd	205	51200	256300
July - October	Sponge gourd	121	28750	92250
September - December	Bottle gourd	510	47800	258200
Machan	-	-	61300	-
		Total	189050	606750

Table -2: Economics of 30 decimal (0.30 Acre) field

Duration	Crops	Area (decimal)	Production (q)	Cost of Cultivation (Rs.)	Net return (Rs.)
March - August	Cucumber	15	25	6000	19000
	Bottle gourd	15	32	6200	25800
September - December	Carrot	10	10	3000	7000
	Beetroot	5	8	2500	9500
	Spinach	5	8	2200	5800
	Onion (leaf)	10	20	4800	35200
January – February	Radish	30	45	6100	38900
			Total	30800	141200

With new technology provided by KVK, he is getting 7-8 lakhs net income per year from 1.30-acre area and have good social status.



Dr. S.P. Singh, Scientist KVK Belipar, Gorakhpur visiting the Anand's bitter gourd field.



Dr. S.P. Singh & Dr. S. K. Singh scientist KVK Belipar, Gorakhpur visiting the Anand's bitter gourd field