

Success Story on “Doubling the Farmer’s Income through Interventions of KVK Kheda”

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KVK Kheda is located at Dethali village of Matar taluka in Kheda district of Gujarat state. KVK is successfully running the activities as per the mandates of ICAR in jurisdiction of whole Kheda district. As per achieving the goal and fulfilling the dream of Hon’ble Prime Minister Shri Narendra D. Modi to double the farmers’ income by the year 2022, KVK is working on the roadmap provided by National Institution for Transforming India (NITI), Government of India along with ICAR mandates. To enhance the net income of the farmers up to double level, KVK has adopted two villages namely; Vanthvadi (Block: Mahemdabad) and Kevadiya (Block: Kapadvanj) since last four years. KVK is arranging Front Line Demonstrations (FLDs), On Farm Trials (OFTs), Trainings and Crop Diversification programs in these villages. With the collaborative efforts of all the scientists of various disciplines of KVK, goal has been achieved in enhancing the income of the farmers of adopted villages. This success story is about one the farmers of Vanthvadi village of Mahemdabad block of Kheda district.

Jaydeepsinh Jasvantsinh Chauhan (Age 46) is the progressive farmer and doing farming since very young age. He studied up to F.Y.B.A. and having 25 acre of the land. Before coming to the contact with KVK Kheda, he was doing farming by his own way and wisdom. At that time he was facing the problems like low yield and high production cost. Before the interventions of KVK in year 2016-17 as a baseline period, his area for production of crops, animal possession, total production, gross income and net income are as per below mentioned table 1.

Table 1: Before Interventions of KVK

Component Description		Benchmark (Baseline period 2016-17)			
Component	Name & Variety	Area (Acre)/No.	Production (Q/Liter/No.)	Gross Income (Rs.)	Net Income (Rs.)
Field Crop 1	Paddy (GR 12)	23.12	222	495800	135050
Field Crop 2	Wheat (GW 496)	18.75	225	360000	153750
Field Crop 3	Green gram (GM 4)	18.75	60	285000	150000
Fodder Crop 1	Sorghum (Solapuri)	1.25	625	46875	24513
Fodder Crop 2	Bajara (GFB 1)	1.25	166.25	25768.75	120189
Livestock	Buffalo	2	2500 (per lactation)	100000	25000
Total				1313443.8	500332

From the table 1, It can be seen that in year 2016-17, the farmer was growing GR 12 variety of Paddy in 23.12 acre area with total 222 quintal production, GW 496 variety of Wheat in 18.75 acre area with total 225 quintal production and GM 4 variety of Green gram in 18.75 acre area with total 60 quintal production in form of field crops. While in fodder crops, he was growing single cut Solapuri variety of Sorghum in 1.25 acre area with total 625 quintal production and GFB 1 variety of Bajara in 1.25 acre area with total 166.25 quintal production. He was having with 2 Buffalo with total 2500 liter milk production per lactation per year. From Paddy, Wheat and Green gram, he was getting Rs.135050, Rs. 153750 and Rs. 150000 as net income, respectively. While from Sorghum, Bajara and Buffalo, he was getting Rs. 24513, Rs. 120189 and Rs. 25000 as net income, respectively. From all the sources, total net annual income of the farmer was Rs. 500332 in year 2016-17.

Due to adoption of his village and interventions by KVK Kheda from year 2017, the significant changes were observed in production and income of the farmer. Due to KVK's interventions, farmer grew improved varieties of field crops through recommended package of practices under the supervision of scientists of KVK and did crop diversification in one field and fodder crop. The area, production, percentage increased in production and income

on the basis of base year are as per the below mentioned table 2.

Table 2: After Interventions of KVK

Component Description		Period 2020-21				% increase over base year	
Component	Name & Variety	Area (Acre)/No.	Production (Q/Liter/ No.)	Gross Income (Rs.)	Net Income (Rs.)	Production (%)	Income (%)
Field Crop 1	Paddy (GAR 13)	23.125	281.2	710844	352407	26.67	160.94
Field Crop 2	Gram (GG 5)	18.75	108	550800	397050	100.0	100.0
Field Crop 3	Green gram (GAM 5)	18.75	72	518400	387150	20	158.10
Fodder Crop 1	Sorghum (CoFS 29)	1.25	725	54375	38575	16	57.37
Fodder Crop 2	Oat (Kent)	1.25	275	32750	20000	100.0	100.0
Livestock	Buffalo	2	2800 (per lactation)	145600	43680	12	74.72
Total				2012769	1238862	-	147.61

From the table 2, it can be observed that in year 2020-21 in form of field crops, farmer grew GAR 13 variety of Paddy in 23.12 acre area with 281.2 quintal production, GG 5 variety of Gram in 18.75 acre area with 108 quintal production, and GAM 5 variety of Green gram in 18.75 acre area with 72 quintal production. In case of fodder crops, he grew perennial multi cut variety CoFS 29 of Sorghum in 1.25 acre area with 725 quintal production and Kent variety of Oat in 1.25 acre area with 275 quintal production. In case of possessed milch animal, his 2 Buffaloes were giving total 2800 liter milk per lactation per year. It was also observed that from field crops viz., Paddy, Gram and Green gram, he got Rs. 352407, Rs. 397060 and Rs. 387150 as net income, respectively. While from Sorghum, Oat and

Buffalo, he got Rs. 38575, Rs. 20000 and Rs. 43680 as net income, respectively.

Due to arrangement of FLD of GAR 13 variety of Paddy and GAM 5 variety of Green gram in the field crops, FLD of perennial multi cut variety CoFS 29 of fodder sorghum and crop diversification from Wheat to Gram and Bajara to Oat, significant and positive changes in production and income were observed and that can be seen from table 2. In case of paddy crop, per cent increase in production and income were 26.67 and 160.94, respectively. Similar way in case of Green gram, Sorghum and Buffalo, per cent increases in production were 20, 16 and 12, respectively and per cent increases in income from them were 158.10, 57.37, and 74.72, respectively. In addition to this, it was found in cost saving of Rs. 5400 due to growing of multi cut sorghum variety. It can also be observed that the overall annual income for the farmer increased up to 147.61 per cent due to DFI interventions of KVK.

Conclusion

The Farmer used to get annual income of Rs. 500332 from Paddy, Wheat, Green gram, and Single cut variety of Sorghum, Fodder Bajara and Buffalo. He faced problems like low yield and high production cost. With DFI interventions like FLDs, Crop diversification and Trainings, he is getting annual income of Rs. 1238862. In addition to this, there is a cost saving of Rs. 5400 due to perennial multi cut variety CoFS 29 in the production of Fodder Sorghum.





Farmer using GR 12 variety of Paddy	FLD of GAR 13 variety of Paddy
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