

## Success Stories with action photographs:

### 1. High income by producing chickpea crop seed

- Profile of Farmer:

**Name** : Solanki KhumansinhValjibhai  
**Village** : Karmad  
**Taluka** : Chuda  
**Age** : 60-Year (Birth Date13-07-1957)  
**District** : Surendranagar (Gujarat)  
**PIN** : 363 415



**Mobile No.** : 9978795667  
**Education** : 10<sup>th</sup> Pass  
**Land : Holding** : Total 6 Acre : 1 Acre Cotton + Chick Pea  
5 Acre Chick Pea  
**Farming : Experience** : 42  
**Crops Grown** : Cotton, Chick-Pea, Sesame  
**Cropping : System** : Sole crop, Intercrop  
**Livestock** : Total : 6 Animal  
(3 Cow + 2 Calf +1 Buffalo)

- Situation analysis/Problem statement :-

In Karmad village, major crops grown in *Kharif* are cotton, sesamum and bajara and in *Rabi* season, wheat, cumin and chickpea crops. Farmer generally sows chickpea crop by using loose seed (indigenous). Khumansinhbhai was also doing the same. That resultant in low remuneration due to low yield of the crop. Mostly local varieties also infested by *helicoveraarmegera* larvae and wilt problems so this crop is not profitable in consideration of farmer. He grown chickpea crop for home consumption only.

#### Plan, Implement and Support :-

In the year 2015-16, KVK, JAU, Surendranagar has been provided chick pea's improved crop variety GJG - 3 under NFSM cluster FLD for 20 ha area covering 50 farmers. Solanki Khumansinhwas also one of them.

Its performance was found good and seen increasing demand of chickpea crop variety by other farmers and farmers of neighboring villages, Khumansinhbhai adopted this technology immediately for next year in larger area in hope of good production and high return. And it actually happened to him.

When on the basis of cluster FLD of chickpea crop variety GJG-3, demand of this variety's seed was grown, KVK carried out survey of the need of the seed of the same for next season and said to many farmers that seed production of chickpea crop may be business of profit as there are huge demand may raise for next coming season.

- Output:-

He got bumper seed production in the year 2016-17 in the 2 ha area. He stored seed as per the directions given by the scientist of KVK. For that, he sorted the seed material and graded it, stored it in air tight doubled layered plastic laminated gunny bags. At the same time KVK and he himself made publicity of availability of seed material during KVK extension programmes like, Farmers fair, exhibition, farmer meeting, field day and in training programmes. This kept interested farmers informed about seed's quality, available quantity, price per kg etc. It resulted in

purchasing of entire 60.00 quintal seed from his home. He did not even spent a single penny for transportation cost of its selling of 60.00 quintal seed.

**Out Come:**

After seeing the performance of this variety many farmers of this village and from neighboring villages sought the seed demand from him for next coming season as seed (for the Rabi 2016 - 17). He sown in 2 ha land and got 62 quintal production from same area. Out of it he stored 60.00 quintal seed of GJG-3 crop variety properly for selling. He provided 60.00 quintal seed material to the 23 interested farmers as seed input. This action not only fetched good price for him but it also ensured the availability of good quality of seed at their locality with less price as compare to market. He sold his chickpea seed @Rs. 7500/- per quintal. He earned gross income of 4.61 lakh from 2 ha area. Both of them (he himself and buyers) got benefited and it was win - win situation for both of them.

**Details are given below:**

- **Market price** : Rs. 5500 per quintal
- **Price fetched by sold as seed to other farmer** : Rs. 7500 per quintal

Chickpea Crop sown Area (In ha)	Crop Variety	Cost of cultivation (2 ha)	Total Production	Production as per local variety grown in previous year	Increase in production over local in 2 ha	Quantity sold as seed (In qtl.)	Comparison of price fetched (In Rs.)		Gross profit (As per local variety production)	Total Benefit (In Rs.)
							As per market	As seed sold (450000 +11000)		
2.00	GJG-3	41360	62 qtl	33.60	28.40	60qtl	341000	461000	184800	276200

- **Impact:** Now with in short span of time Karmad village popular having good quality of seed of gram. in current year again farmer grow this seed at their farms and about seeing the good performance of crop this season also good for seed production.



Field day Organized at KarmadVillage



Training Programme at KarmadVillage



Farmers Drying their seed for next crop



Field day Organized at KarmadVillage

## 2. Prosperity through production and selling of chickpea seed and adoption of climate resilient technology.

### 1. Profile of Farmer:

<b>Name</b>	: Chauhan JadishbhaiBhagawanbhai
<b>Village</b>	: Karmad
<b>Taluka</b>	: Chuda
<b>Age</b>	: 64-Year (Date of Birth 10-12-1953)
<b>District</b>	: Surendranagar (Gujarat)
<b>PIN</b>	: 363514
<b>Mobile No.</b>	: 9979197277
<b>Education</b>	: 6 <sup>th</sup> Pass
<b>Land Holding</b>	: Total 15.0 Acre 5 Acre Cotton + Chick Pea 5 Acre Chick Pea ) 5 Acre Cotton
<b>Farming Experience</b>	: 51 Year
<b>Crops Grown</b>	: Cotton, Chick pea, Sesame Sorghum
<b>Cropping System</b>	: Sole crop Intercrop
<b>Livestock</b>	: Total 4 Animal (1 Cow + 3 Buffalo)



### • Description of Innovation:

In Karmad village, major crops grown in *Kharif* are cotton, sesamum and in *Rabi* season, wheat, cumin and chickpea crops. Farmer generally sows chickpea crop by using loose seed (indigenous). Jagdishbhai was also doing the same. That resultant in low remuneration due to low yield of the crop. Mostly local varieties also infested by *helicoveraarmegera* larvae and wilt problems so this crop is not profitable in consideration of farmer. He grown chickpea crop for home consumption only. In the year 2015-16, KVK, JAU, Surendranagar has been provided chick pea's improved crop variety GJG - 3 under NFSM cluster FLD for 20 ha area.

### • Plan, Implement and Support :-

Shri Jagdishbhai Chauhan earlier grown cotton, cumin and wheat crop in his farm field. He stopped chickpea crop due to occurrence of disease in chick pea as he used local variety for chickpea. As he had had not aware about the new variety of chickpea crop. When KVK gave CFLD on chickpea crop variety GJG-3 and it performed well, he continued it for the next year also. In the year, 2016 - 17, when cotton crop almost got failure due to severe attack of pink bollworm in Bt cotton field. Performance of cotton crop was not looked so good and he was doubtful of getting even 50% of crop production as against of normal year. In this situation, he discussed with KVK scientist and opined that can he go for relay cropping of improved chickpea variety GJG-3 in cotton crop field as intercropping 1:3 ratio. KVK scientist gave him scientific information and supported him.

Accordingly in the year 2016-17, he sown chickpea in 2 ha land as solo crop and got 4000 kg production. In other farm field of 2 ha area, he grown chickpea as relay crop in cotton field. In relay crop, he got 1600kg seed production in 2 ha area which was additional income with cotton yield. Details are given in below table:

- **Income through adoption Relay Cropping : Cotton followed by Chickpea for mitigation of adverse effect on cotton due to changing climatic condition:**

Crop Name	Name of Critical inputs	Yield (q/ha)	Cost of Cultivation (Rs./ha)	Gross Return	Net Return (Rs./ha)
Chick pea	Crop var. GJG-3	8	4525	60000	55475
Cotton	Bt Cotton	16	28500	86000	57500
<b>Total</b>					<b>112975</b>

- **Spread of Innovation:**

Apart from this, Shri Jagdishbhai Bhagvanjibhai sold about 36 quintal chickpea as seed @ Rs. 7500/quintal to farmers of Siyani, Limdi, Lilapur and Patadi village. While chickpea grain price at that time in market was Rs. 5500 to Rs. 6500 per quintal. In this way he fetched additional Rs. 36000.00 by price difference as selling chickpea as seed to other fellow farmers. Many farmers also adopted and inspired from him and acted for horizontal spread of the technology.



Cotton + Chickpea field of Jagadishbhai at Karmad village



Farmer's meeting organized by KVK scientists at Jagadishbhai's field at Karmad village

### **3. Organic Lemon Orchard brings happiness through high income by fetching good market prices.**

#### **Profile of Farmer:**

**Name** : Shri HamirSinhRaghubhaParmar  
**Village** : Gautamgadh,  
**Taluka** : Muli  
**Age** : 67 (20-11-1951)  
**District** : Surendranagar  
**PIN** : 363001  
**Mobile No.** : 9825385048



**Education** : B. A. with Politics  
**Land Holding** : 5.98 ha  
**Farming Experience** : 40 Years  
**Crops grown** : Lemon Orchards with intercropping of vegetables  
**Cropping System** : Lemon Orchard  
**Livestock** : 01 Cow

#### **Description of Innovation :**

Shri Hamirsinh Bhai is a govt retired person, and always worried about the increasing and injudicious use of chemical pesticides and fertilizers in agriculture. Due to this, cost of cultivation increased and also cause deteriorate the soil health. He then decided that after retirement, he will do organic farming in his ancestral land and show the path to other fellow farmer. He then initiated his efforts and also contacted scientists for getting knowledge and guidance for going to organic farming. First he decided to minimize the use of chemical pesticides and fertilizers and then he acquired the knowledge about organic input for providing nutrition, health management etc through organic inputs. He first applied it to his lemon orchard of 1.60 ha. and adopted drip irrigation and ensured the optimum use of available irrigation water, then started the composting of farm waste at his own at his organic farm house. He also reared the buffaloes for getting dung and other product. He then approached and publicized his organically produced lemon. He also acquired the "SCOPE" certificate from GOPCA( Gujarat Organic Products Certification Agency)

#### **Utility of Innovation:**

He is getting almost stable production of lemon fruit from 1.6 ha land. He is getting 75 qtl lemon fruits/ and net return is Rs. 409365.00. He himself prepared the various extracts for managing pest and diseases and also producing farm waste composting. By doing this, he reduces the cost of cultivation drastically. He applied drip irrigation and ensured the judicious use of irrigation water and also reduced the labor cost, time saving in irrigation, application of organic nutrient as fertigation through drip system. It saves him money in terms of labour, time and made his work easy with less dependency on labor. Buyers buys directly from his farm and readily paid higher price due to organically produced lemon with high quality and trust on him. It fetched the 15 to 20 % higher money than prevailing market price. He also use the 04 whatsapp group platform for informing his customers regarding availability of production, market price etc. Further on the advise of scientist of KrishiVigyan Kendra, Surendranagar, he initiated the value addition and processing of organically produced lemon fruits and vegetables. By doing this he will get two fold increase in his net return.



Year	crop	Area (ha)	Production (kg)	Cost of cultivation (Rs.)	Gross income (Rs.)	Net return (Rs.)
2014-15	Lemon + Sapota	1.6	12000	29000	329000	300000
2015-16			13200	164000	526000	362000
2016-17			10740	77825	487190	409365

**Spread of Innovation:**

He inspired many farmers to adopt organic farming especially organic farming of orchards. At least 20 farmers adopted organic farming. He also is inspiring the farmers for organic certification for organic farming. Now he proceeded towards value addition and processing of organically produced lemon and would be more provocative towards his advisory services towards fellow farmers.



Organic farming by Hamirsinhbhai's success story media coverage in local news paper



Field visit by KVK Scientists with farmer of Gautamgadh Village



Shri Hamirsinhbhai showing the packaging material for value added products made by lemon fruits



Lemon fruits of Hamirsinhbhai's lemon orchard