

# **CSA-INDIAN EXPERIANCE**

## Climate Smart Farmer of Anand District of Gujarat-India

Generations after generations, farmers of Charotar representing the twin districts of Anand and Kheda have made this NRI-rich belt of Central Gujarat famous as the "golden leaf" of Gujarat, India. But day by day the demand of this crop is decreasing so whole area has shifted for other crops .Primarily an agricultural district with tobacco and paddy as the predominant crops, the other major crops cultivated are wheat, banana and vegetables. About 30.12 % of land holdings are with small and marginal farmers and the average size of the holdings is 0.96 Ha.

I am Devesh patel. I did my bachelor in Computer Application .Our traditional Occupation (trade) is Agriculture. My father did hard work for agriculture but not get profit .After my graduation initially I started Job in a Company but later continue my traditional trade .I used my education and knowledge with my father's traditional knowledge and stated bio organic farming in my land- village Boriavi. (Taluka - District - Anand, Gujarat, India).Entire 3.44 hactre of land is used for organic farming. We have also established a small dairy farm and an infrastructure for processing our products namely Potato, Ginger, Turmeric Chilli, Maize (Pop Corn) and Wheat.

#### Over view of our farm management practices

- Mix crop with green manure in ginger.
- Purple yam include desi guvar cluster bean for green manure.
- Mulching.
- Planting jute, elephant food yam in moth.
- Bean, potato farming mix crop in maize.
- 2 crops in a year in some part of the land and 1 crop in a year is some other part of the land.
- Our own seed variety of traditional ginger and turmeric.
- We have started now applying protection of plant variety of farmer's authority, India.
- For potato, every four years we change the seed variety, now we buy seed from CPRI, Modipuram, Meerut.
- For Guvar, Wheat, Maize, Yam, Elephant food yam, practice adopted is traditional reuse of plantation.
- We are producing our own seeds for the following crops.
  Ginger, Turmeric, Potato, Wheat, Yam and Elephant foot yam.
- We store & conserve seeds for ginger, turmeric, yam, elephantfoot yam, wheat and guvar in our own farm warehouse in jute bags. Wheat, Potato seeds we store and conserve in cold storage.
- We share, as per demand, our organic and local seeds with number of other farmers

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As regards to soil fertility we use our own FYM scientific compost, Jivaamrut, vermin compost, green manure, Bio char Bio dynamic.

We get sea weedsblue coaster line and bio fertilizer from Anand Agriculture University.

- In ginger and yam crop we apply green manure & cluster bean (guvar), while turmeric farming in jute, elephant yam is mug legume.
- We conduct early-stage weeding and leave on land for green manure, also leave post harvested crop leave and pun in land and dishherow application for mixing.
- We use dairy farm cow dung for vermin composting.
- We allow decomposition of gliriadia tree leaves for natural nitrogen production, moonflower plant for natural phosphorus production and calotropis for natural potash production.

#### Our Farm Management Practices at a Glance

1	New Package of Practices	Use of innovative self-invented technology for value addition which has		
	/ management strategies	helped in great way.		
2	Conserving of Resources	We are conserving our land resource by organic farming, we are avoiding		
	/ Sharing inputs	pesticides fertilizer, we are collecting rain water of magha nakshatra and		
		use it in drip irrigation which helps for batter production and also saves		
		water.		
3	Breaking technology	We are using natural resources like sun light for drying ginger and		
	transfer barriers.	turmeric instead of using steam machines, so by this way use of sun light		
		has helped us to transfer technology barrier.		
4	Insect and pest	We are applying different kind of organic methods to fight with insects and		
	management	pest. We use cow urine, neem oil, "jivamrut", butter milk. We use calotropis		
		gigantean for pest management.		
5	Integrated water	We use drip irrigation, and rain water of magha nakshatra		
	management practices			
6	Indigenous technical	We are using cow urine for seed treatment which helps in protecting crop,		
	knowledge	helps in fast germination and healthy crop.		
7	Bring about radical	We use mulching, drip irrigation, land preparation and exposing land for		
	change in management	sun light, using organic farming techniques.		
	which contributing in			
	record production from			
	land, water and animal			
8	Organic manure	We use mulching, land preparation, exposing land for sun light, using cow		
	application	urine and cow dung, use of "jivamrut", use of neem came and castor cake,		
		use of vermi compost, trichoderma, azotobacter, phosphates bacteria, use of		
		butter milk and jaggery for bacteria multiplication and use of earth warms.		



### Compassion of Farm Technology followed earlier and now for both the crops viz.

Ginger and Turmeric

Ginger and Turmeric										
Operation	Earlier	New Technology								
Seed treatment	None	Seed treatment with Trichodermma +								
		Paeciiomycesas per recommendations								
		of Anand Agricultural University.								
1st Irrigation	Flooding with bore	Water during Magha Nakshatra (based								
(before sowing)	well water	on Indian Astrology) is stored and								
		applied during 1st irrigation. Sowing is								
		done during June end for Ginger and								
		by mid May for Turmeric when the								
		Max. Temperatures are very high								
		(around 44° C plus in Gujarat).								
Fertilizer	N:P:K as	Soil Analyses for various components,								
	recommended for the	N: P: K supplementing with FYM,								
	copy by State Dept. of	organic cakes, bio fertilizer, vermin								
	Agriculture	compost and green manuringas per								
		recommendations of Anand								
		Agricultural University.								
Irrigation	Flooding	Drip Irrigation								
Integrated Bio	NIL	Mixture of [Cow urine +Cow dung								
Nutrient		+cow butter milk+ jaggery+ Gram								
Management		flour (Besan) +soil from the base of								
		banyan, papal and neem trees] is								
		applied to the soil before sowing and								
		once in a month for the crop period								
Pest Control	Chemical Pesticides	Exclusively through application of								
		mixture of [neem oil + cow urine+								
		butter milk], sticky traps, buffer crops,								
Interculturing &	More manpower	Less manpower as less weeds due to								
weeding		drip								
Harvesting	As per market prices.	At crop maturity and processing of the								
	Crop maturity was	produce through mechanization.								
	not reached									
Product sale Green harvest went		Marketing done through chain system,								
	straight to the market	retail outlets and through Internet								
		through own web site								
		www.satvaorganic.com and Face book								
		page satva organic								

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#### Details of Crop productivity based on last one year data

Sr. No.	Crop	Area of Cultivatio n hectare	Production Quintal	Cost of Production per hectare Rs. Approx	Sales value Realization per Rs. Approx	Net Profit Approx
1	Ginger	1.6	240	180000	625000	445000
2	Turmeric	1.54	400	130000	500000	370000
3	Potato	1.00	360	75000	400000	375000
4	Wheat	0.30	5	3000	20000	17000

If, I have not gone for Organic Farming and like most of the youth for employment, I could have earned only a few rupees and maintain my family. Because I adopted Organic Farming after association with NCCSD , I am able to live peaceful life with special status besides I helped lot many farmers in promoting Organic Farming and value addition practices.

Now I participate and guide farmers during NCCSD Training and Krishi Mahotsav every year. First I Learnt in NCCSD training and now I guide and train farmers in my farm school which is provided by Agriculture Technology Management Agency (ATMA). Our indigenous dry ginger and turmeric powders are highly respected and famous in market.

Our farm serves the purpose of a demonstration farm for all visitors.



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