

Additional income generation through IFS Model

Name and complete address of Farmer:

Name: **Rathva Bharatbhai Vipinbhai**

At post: **Uchapan,**

Taluka: Bodeli,

Dist.: Chhotaudepur, Gujarat

Age: 23

Mobile No. : 7573887832



Situation analysis/Problem statement:

Shri Rathva Bharatbhai Vipinbhai is an innovative farmer of Uchapan village, taluka- Bodeli district Chhotaudepur of Gujarat and is having cultivated 3.0 acres of land. He has educated up to 12th standard. In Chhotaudepur district of Gujarat majority of the farmers grow a single crop i.e Cotton in a year. Due to the mono cropping, farmers get the very low return per acre of area. One of them Shri **Rathva Bharatbhai** cultivated regular crops like maize and cotton without any improved technological knowhow. Once Shri Bharatbhai visited to protected cultivation unit of Krishi Vigyan Kendra Vadodara- Chhotaudepur and told his problem that how to increase the farm income to Dr. B.M.Mehta, Senior Scientist & Head and Scientists of Krishi Vigyan Kendra, Vadodara- Chhotaudepur, Gujarat and he thought to grow crops or vegetables in protected cultivation. He starts to collect information about green house and finally in 2020 set up well –structured net house of 0.50 acre on his own land.

Plan, Implement and Support:

Shri **Bharatbhai** is a young educated farmer of Uchapan village, taluka- Bodeli district Chhotaudepur of Gujarat. By knowing the green house farming & after participating in KVK, Vadodara- Chhotaudepur training and frequent visit to KVK, he decided to prepare a greenhouse and start vegetable nursery in green house. Shri Bharatbhai made greenhouse of 0.50 acre area in the year 2020 and initially he started the vegetables seedling nursery with raised beds and plug nursery technique and grow the area based seedlings of vegetables for the farmers and direct selling to the farmers. He also grows the maize (Sweetcorn) in 2 acres and selling directly to the consumer.

Now a days he grow the multiple crop like Cotton, Pigeon Pea, maize (Sweetcorn), Tomato, Chilli ,Okra and vegetable seedling nursery (in plug nursery) in small piece of land for needy farmers of the area with the initial spent of Rs. 200000 for all the work and harvested the all crop in a year.

Output: Shri Bharatbhai mentioned that by adopting this technology after two year of extreme effort, he got more output from 3 acres area as he never got it from open field. As compare to earlier situation, in the 2nd year he produced 3,64000 seedlings of different vegetables and earned Rs. 521000/- from 0.50 acre area in round the year, and finally he earned Rs. 1077750 /- during the year 2020-21 from 3 acre of land.

Outcome:

With adoption of improved technology, Shri Bharatbhai able to stand his life economically at upper stage and he was become a respected person in community. He proved that when improved knowledge, technology and hard working works together then we can achieve our desired goal. After this technology invented in the village the farmers says that Monocropping (growing only one crop) is now a fading practice among several farmers since they are realising that for their economic safety and better returns it is important to grow additional crops.

Impact: Shri Bharatbhai set an example of doing farming as a business point of view instead of regular farming that we are doing since our ancestors. He likes to encourage and trained nearby rural youth about vegetable plug nursery in protected cultivation. His adventures efforts encourage other 15 to 20 farmers to develop this type of protected cultivation structure and whenever they have any troubles regarding they contac Krishi Vigyan Kendra Vadodara-Chhotaudepur Scientists and herself also.

Table: Economics (Investment & profit) of both units analysis

Component Description		Period 2020-21			
Components	Names	Area (Acre)/No	Production (Q/Liter/No.)	Gross Income (Rs.)	Net Income (Rs.)
Field Crop 1	Cotton	1.00	10.0	54000.0	39600.0
Field Crop 2	Maize	0.50	14.0	23800.0	17000.0
Other enterprise	Veg. seedling Nursery	1.50	3.64000	521000	248000
Livestock 1	Cow	1	1620.0	56700.0	30080.0
Livestock 2	Buffalo	5	8550.0	384750.0	224320.0
Livestock 2	Green Fodder	0.20	250.0	37500	25000.0
Total				1077750.0	359680.0



Backyard Poultry and Natural farming enhanced livelihood of tribal famer

Name of famrer: Rathva Jatanbhai Revlabhai

Address: Vilage: Piplada, Taluka: Kawant, District: Chhotaudepur, Gujarat

Mobile Number: 8140189424



Situation analysis/ Problem statement

The population of Kawant, Chhotaudepur district is predominantly tribal community. Majority of farmers were migrating to Saurashtra, Gujarat for work due to less availability of water and low productivity of crops as well as livestock in this region. In this region, majority of people are non- vegetarian and due to their non- vegetsrian dietary pattern there is a good demand for meat and eggs in this region. Every Monday Hatt market is organized in Kawant taluka and gathering the people is observed in hatt market surrounding the taluka and nearby state like Madhya Pradesh and Maharashtra. From Madhya Pradesh and Maharashtra meat merchants come from for purchasing the meat and natural crop product, so that a very good demand of Indigenous poultry, eggs is prevailing and natural farming. But the production in the region is poor due to traditional method of poultry rearing and crop production. Based on need of the region, high production potential poultry birds (like Kadaknath, Arawali and Ankleshwar) have been introduced in the year 2019 by Krishi Vigyan Kendra, Mangal Bharti, Vadodara- Chhotaudepur through under the FLD and popularized as a source of sustainable livelihood for rural resource poor farmers. After successful completion of FLD village farmer Shri Rathva Jatanbhai Revlabhai inspired and become ready to adopt as a commercial venture and develop the market in hatt Bazar, Kawant and he also adopt the natural farming.

Plan, Implement and Support

Shri Rathva Jatanbhai Revlabhai has a total 3 acres of land out of which 50 per cent are non-irrigated. He develops interest in Integrated Farming System mainly by including poultry and natural farming. For acquiring information on poultry and natural farming he approached Krishi Vigyan Kendra, Vadodara- Chhotaudepur. He participated in various training programmes like Integrated farming system, Natural farming and backyard poultry and visited various poultry farms those are partially successful in the locality and searched the demand of which breed is high in HAtt Bazar so as to get the maximum price in minimum investment. After completion of survey , he meet again to KVK Scientists and finalized the project and purchased 1500 chicks of Kadaknath, Arawali and ankleshwar breeds from reliable hatchery and start the natural farming of Maize, Paddy and Pigeon Pea crops.

Output:

He started the small Backyard poultry and constructed the Pakka shed house initially for 2000 birds and starts the scientific rearing on low cost, means all feeding materials are used from home made and prepare locally. He has interested in backyard poultry and natural farming and his interest was ignited when he visited Poultry unit of Krishi Vigyan Kendra , Vadodara- Chhortaudepur , Gujarat. He stared from the Kadaknath 500 birds, Arawali 500 birds and Ankleshwar 500 birds in early 2019. Proper housing, feeding and disease management of birds led to early maturity (2.25 kg body weight gain in 4.15 months) in birds, first egg lay (at Kadaknath, arawali and ankleshwar is 21,22 and 22.50 weeks of age respectively). He sells 50 cocks in Hatt Bazar, Kawant @ 800/ birds Kadaknath and Rs. 500 @ of Arawali and ankleshwar after 4.50 months of age. He managed to get about 1100 eggs from all birds in last

4.50 months and sold each egg @ rs. 10 per egg. Keeping Kadaknath, arawali and ankleshwar helps him in generating cost of daily expenses of his farm. In 2020, he replaced the all birds stock by selling each bird for Rs. 600 in local customer as well as in Hatt Bazar and renovate the same breeds to continue and he also develop the local customer so the profit was increase day by day as compare to Hatt Bazar. In 1st year he was earn the net profit of Rs. 145000.0 from all live and eggs production and in 2nd year the net profit was Rs. 225000 in a year from same population and reversed condition like Corona pandemic.

Shri Rathva Jatanbhai Revlabhai has maintained the natural farm and grow the local consumable crops like Maize, drilled paddy, Pigeon pea, tomato, chilli and other vegetables on farm boundary and sell in local consumers directly in schools, hospitals and governments offices of Kawant so he was earn the double profit as compare to market and from 3 acres of land he was get the Rs. 175000 net profit. He has set many examples for the farming community for feasible, economically viable and sustainable enterprise.

Outcome:

Due to easy accessibility of market, other farmers can also start the enterprise conveniently. It has generated employment opportunities for rural youth and farmers were enriched with sound knowledge on commercial farming of breed and natural farming. The venture has successfully generated average increase the income of Rs. 22000 from eggs, Rs. 145000 from birds and Rs. 175000 from natural farming product like fields as well as vegetable crops in a year. Local non-descript birds were upgraded due to crossbreeding of improved breeds like cross from Kadaknath, Arawali and Ankleshwar breed of poultry. Feed back of farmers includes faster growth of birds more number of bigger sized eggs thrives well under low input system, resistance to most of the diseases and requires small space, minimum labour force and investments in backyards poultry. In natural farming increase the soil health & soil texture, save water and good quality production for human health.

Impact:

Nowadays, farmers from many places in Kawant get inspired and developed confidence after meeting with Shri Rathva Jatanbhai Revlabhai and seeing his farm. For holistic livelihood development, Shri Rathva Jatanbhai Revlabhai has proven that a farmer with dedication, hard work and keen interest can thrive well with integrated farming in their small land holdings. He inspired and facilitated 25 farmers to start backyard poultry and natural farming. In Kawant Taluka of Chhotaudepur district a lot of opportunities for backyard poultry and natural farming because all taluka is as under tribal and very low uses of chemical fertilizers and pesticides.

Table: Economics (Investment & profit) of both units analysis

S.No. Year	2018-19	2019-20	2020-21	2021-22
Total Investments	250000	200000	150000	100000
Total Profit	145000	225000	275000	300000

