


## Success Story 1: Banana Fiber Extraction

Name of farmer	 Sri Jagat Kalyan
Address	Village- Rampur Nausahan, Block- Hajipur, Dist- Vaishali
Contact details (Phone, mobile, email Id)	7026771073
Landholding (in ha.)	04 ha
Name and description of the farm/ enterprise	Tarwar Agro Industry Pvt Ltd
Economic impact	5:1(B:C ratio)
Social impact	Famous
Environmental impact	Wealth from waste
Horizontal/ Vertical spread	More farmers are adopting

### 1. Introduction:

Sri Jagat Kalyan aged 28 years old. Village- Rampur Nausahan, Block- Hajipur, Dist- Vaishali. He had completed B.tech in ECE from Acharya Institute of Technology, Bangalore and also completed PGDM (MBA) in Marketing and Operation. He had worked as a sustainable advisor in an organization named Ecohoy and also as Marketing associate at MGS Electronics. He also received job offer from Tanzania and Dubai, But he belongs to a farmer family background and always wanted to do something in this field.

2. **Source of motivation:** He decided not to go to foreign country and start something new in this field at his place of birth Bihar only and started doing research with friend. After a long time of research he came in contact with the Krishi Vigyan Kendra Hariharpur, Vaishali and knew about the Banana fiber extraction technologies and their uses in different aspect for the upliftment of unemployed rural youth and he started collecting information from the banana growers and KVK before startup. KVK supported to Mr. Jagat Kalyan by the help of giving Banana fiber extraction machine under ARYA project.

### 3. Technology and innovation adopted:

He continued to banana fiber extraction process and he also purchased two other machines like Banana stem cutting and Fiber combing machine. At present he remunerated 6 peoples for the fiber extraction and whole process of fiber refinement prior to export in market. They are not only making products out of waste but also providing additional source of income to the farmers and generating employment for the local people. They use farm waste and produce product i.e. Banana Fiber. they have different grades of fiber and also in different colours. Now a days he use to sell fibers to locals, within Bihar and also outside India like in Japan and European countries. His products ranges from 250 to 1150. The expected monthly income is Rs. 30000.00 as a Net profit and he completed eight month of his startup.

**4. Achievement/results:**

He use to sell fibers to locals, within Bihar and also outside India like in Japan and European countries. His products ranges from 250 to 1150. The expected monthly income is Rs. 30000.00 as a Net profit and he completed eight month of his startup.

**5. Training and motivational support:**

Banana fiber extraction technique has enormous scope for employment and resource generation

for unemployed rural youth. It can give lot of employment for farm women for making handicraft items like Ganash Jee, hand purse, tea caster etc. The product made from banana

fiber economical, environmentally safe and bio degradable. So there is no harm on eco system

of the nature.

**6. Awards & recognitions:**

**7. Importance of other farmers:**

Mr. Jagat Kalyan is a complete example for the educated unemployed youth those are seeking

job after achieving higher education. Introduction of Mr. Kalyan in this rural small scale

industry may enlighten the banana growers and unemployed rural youth those are leaving their

home town for the livelihood and retained in their village and getting money.

#### 8. Brief highlights of success:

Banana fibre extraction technique can give a boost for rural economy. From the waste farmer

can make money and variable product in the form of fibre, paper, clothes etc can be made. This

technique can provide social as well as economical security to lesser privileged people of

society.

#### 9. Action photographs:



**Fig. Cutting and Fiber extraction of Banana Pseudo stem**



**Fig. Drying of extracted raw banana fiber**

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Smt. Neelam Devi

Address	Village- Rajapakar, Block- Rajapakar, Dist- Vaishali
Contact details (Phone, mobile, email Id)	7654662166
Landholding (in ha.)	1acre
Name and description of the farm/ enterprise	Shelf help group
Economic impact	5:1(B:C ratio)
Social impact	Famous
Environmental impact	Wealth from waste( Value addition in banana fiber)
Horizontal/ Vertical spread	More farmers are adopting


### 1. Introduction:

Smt. Neelam Devi belongs to a poor family and leaves with two children in a small house. She was running her house as a helpless woman surrounded by financial problems but she had some desire to do something and gave higher education to her children. Then she started looking for a way to solve her problems and in this connection she came in contact with the Krishi Vigyan Kendra Vaishali and shared her situations with the scientist, then she was told about banana fiber handicraft and artisans, only then she told that I can make many types of handicrafts from this banana fiber. In view of her interest in handicraft making, Some banana fiber was given to him by the Krishi Vigyan Kendra Vaishali to make handicrafts, due to which she made quite a beautiful handicrafts of different types and displayed in Krishi Vigyan Kendra. In view of their hard work and dedication, many orders were also given to make handicrafts by the KVK, which she made available within a period of time. After this, she got a Rs 25000.00 against the work of 15 days only and after getting this amount in a short period of time she is very excited and is adding many women with her to generate a good source of income.



**Fig. Banana fiber handicraft item shown by Neelam Devi to Senior Scientist & Head KVK, Vaishali**

### Success Story 3: Bee Keeping

Name of farmer	 Sri Rahul Kumar
Address	Village- Nayagaon, Block- Sahdai, Dist- Vaishali
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	1 acre
Name and description of the farm/ enterprise	Honey production
Economic impact	4:1(B:C) ratio
Social impact	Famous
Environmental impact	Eco friendly
Horizontal/ Vertical spread	More farmers are adopting

#### 1. Introduction:

Sri Rahul Kumar aged 32 years is one of the poor resource farmer. He was living with his 4 number of family. Previously he was working on mandays labour. He could not able to manage his basic requirements and essential home commodities for his family. He lived in thatch house. Sri Rahul Kumar came in contact with SMS (Plant Protection) during need Based survey of the village for the purpose of conducting training programme for the unemployed rural youth Under ARYA Project in year 2019. It was found that the village covered by Oilseed and vegetable crops. Due to small size of land holding, resource poor and ecological situation, Sri Kumar was advised for adopting Bee Keeping to utilize very precious agricultural area and Horticultural crops. Initially he refused to start Bee keeping due to fear with rearing of honey bee. After continuous persuasion and training given to him under ARYA Project 5 (Five) boxes of Honey bee provided to the Mr. Kumar from the KVK. He taken 50 boxes on finance and multiplied 55 boxes into 150 boxes. He earned Net Rs. 120000.00 from this now he has able given good education to his children in spite of manages house hold commodities to his family. At present he has own Pukka house.

After getting good return from bee keeping he added in farming system. These enterprises are not only the good source of good income but also generating the employment to the farmers.

#### 2. Motivation to Farmers:

Sri Rahul is an example for other resource poor unemployed rural youth in village. Many unemployed youth are visited his bee keeping unit and start the bee keeping. Inspired from his venture all the villagers of his village engaged in bee keeping and always contacted to KVK's Scientist about the beekeeping.







**Fig. Honey Bee rearing**

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year





Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	<b>Group dynamic approach</b>		<p>Formation of two farmer's producer organizations in two blocks of Vaishali district namely <b>Diwan Farmer Producer Organization Pvt. Ltd.</b> in Vaishali block for Honey production and Integrated farming system and <b>Samriddhi Farmer Producer Organisation pvt. Ltd.</b> in Bidupur block for vegetable production. To strengthen the farming community by assure food chain supply and market linkage.</p>




2.	<b>Waste Bag Technology of vegetable cultivation in Rice Field</b>		<p>Waste fertilizer or cement bags can be used for the cultivation of cruciferous vegetables in rice field. The waste bag is filled with a mixture of soil and vermicompost in the ratio of 1:1 and kept in rows in between rice field which is under waterlogged condition. Bamboo stakes are fixed in each waste bag and all the stakes are connected to each other using cotton thread or plastic thread. Seeds or seedlings of cruciferous vegetables are sown in the waste bag which germinates, grows and spreads in the threads tied. The water already present in rice field keeps the soil in the waste bag moist which helps in maintaining the moisture level for planted seedlings. In this way, farmers can produce rice as well as vegetables from a single piece of land. This technology can be used in those areas where there is excessive rainfall in <i>kharif</i> season and farmers cannot cultivate vegetables due to waterlogged condition.</p> 
3.	<b>Zero Tillage Potato</b>		<p>Potatoes were sown on farmers' fields without tillage. In this technique, potatoes are spread along the line and after adding vermicompost, they are covered with paddy straw, after which sprinkling of water is required. In this method, the moisture already present in the soil is used and as we all know, a large amount of fertilizer is used to grow the potato crop, but a very</p>

			<p>small amount of fertilizer is used for sowing with this method. By sowing potatoes with this method, farmers save a lot of time, the cost is also very less and the production is 1.5 has been found to exceed.</p> <div data-bbox="626 415 995 783" data-label="Image"> </div> <div data-bbox="1016 415 1385 783" data-label="Image"> </div>
4.	<b>Vertical Gardening</b>		<p>Krishi Vigyan Kendra made vertical gardening very popular among the farmers. This technology proved to be a boon for the landless labourers and farmers. Through this technique, vegetables become sufficient in a very small space for domestic use or to meet the needs of a small family. In this technique, all types of vegetables can be planted at low cost.</p> <div data-bbox="626 1142 1015 1488" data-label="Image"> </div> <div data-bbox="1044 1142 1432 1488" data-label="Image"> </div>
5.	<b>Quail egg pickle</b>		<p>Quail eggs can not stored for long time normally so preparation of quail egg pickle can extend self life and it is good appetizer for people. Quail egg pickle can be prepared in <i>kharif</i> season where less demand for quail egg however, quail egg pickle can be prepared throughout year.</p>



			 
6.	<b>Banana Flour</b>		<p>The Vaishali district area around the Ganga basin is known for banana production. The major varieties are Alpan, Chinia, Malbhog, muthia and kothia in Bihar. The Farmers have less knowledge of banana Flour production technology. Utilization of banana for production of Banana flour is a possible resource to make healthy functional food with high resistant starch and low glycemic index. Banana flour is produced with green Banana that are peeled, Chips cutting , dried and then ground. It can be used as a grounded banana flour for value added products like baby food and as an ingredient in smoothies (Bnana shake).It can also be used as an calf feed of milk replacer.</p>  

7.	<b>Pinching technology in Marigold</b>		<p>Farmers are growing marigold in large scale in vaishali district of Bihar using indigeneous methodology. They plant the seedlings and within a period of one and a half month the plants start to bear buds which further becomes flower. In these methods the plants does not bear more branches that is there is less secondary growth in the plants thereby resulting in less number of flowers ultimately causing reduction in yield.ore, KVK Scientist made the marigold flower growers acquainted with the technology of pinching. Pinching help out the plant to prevent the plant to grow upright and helps in secondary growth. Pinching is done using the thumb and forefinger to pinch out the top growth of the plants. Pinching the tip of plants at 30 and 40 days after planting of seedlings encourages the plant growth with more number of branches which ultimately increases the number of buds thereby enhances the flower yield percentage by 11 percent . Ultimately the farmers were profited.</p> 
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