

Economic Analysis of Productivity of Mushroom Cultivation in Bihar

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Abstract: At present, meaningful efforts are being made by the Government of Bihar in the direction of modernization of agriculture and allied sectors in Bihar, in this context the mushroom production will also have a positive impact. Mushroom Policy of the Government of Bihar All efforts are being made for the agricultural development of mushrooms in Bihar. This will nurture the possibilities which will especially take the rural economy of Bihar forward in a positive direction.

Keywords: - *oyster mushroom, button mushroom, cost-benefit analysis, global market, biological treatment, sustainable development, environment friendly, resource deprived population.*

Introduction

Among the primary activities of human beings, agricultural activity is the biggest and most important activity which is related to the three basic needs of human beings - food, clothing and shelter. On the one hand, the agricultural sector provides food to humans, and on the other hand, it provides food to humans and on the other hand, it provides food and clothing to humans. Also, on the basis of availability of raw material, man fulfills all the needs related to his life. The field of agricultural activity of man is so special that about 16 forms of agriculture are basically found at the global level. In 1916 AD, "D. Hillis" had given a specific explanation of agricultural pattern in the classification of agriculture.

Among their agricultural patterns, one type is commercial and industrial agriculture. From the point of view of economic profit, industrial and commercial agriculture greatly supports the farmers. From this point of view, commercial and industrial agricultural patterns of many crops can be developed. One of these is The main crop is mushroom cultivation, from health point of view mushroom is a highly nutritious agricultural product. Necessary geographical, economic and cultural conditions are present for mushroom production in India, especially in the field of human heart disease and blood pressure. Health related benefits of mushroom product. Considering the importance, the Government of India has also made a separate strategy for mushroom cultivation in view of the high nutritional value of mushrooms. The presented research paper has been prepared in the context of Bihar, revealing the economic aspect of mushroom cultivation. In Bihar 70% to 90% financial support is given by the Government of Bihar for mushroom cultivation. In Bihar, especially in North and Central Bihar, mushroom cultivation is done at the rural level in small village facility centers. Let it be clear here. Considering it appropriate to give, our research paper has been made only on mushroom cultivation. Thus, during the preparation of our research paper, we conducted an in-depth survey especially in North Bihar Begusarai district, although the research paper is based on secondary sources. But based on field work the primary area has become the basic basis of the research analysis that came before us.

At present, through the facilities provided for mushroom cultivation under the Agriculture Road Map Policy in Bihar, farmers can become self-reliant at global and domestic level through this agriculture. It can become a means of employment in cottage or family industries. Since mushroom it is a perishable crop. Necessary utility has to be provided through markets, which comes under mushroom activity.

Objectives of Research

- I. The main objective of the presented research is to find out the positive cultivation of mushroom in Bihar.
- II. The main objective will be to increase and encourage small-scale employment opportunities, especially among farmers.
- III. The main objective will be to show the economic profits from mushroom cultivation.

Research Hypothesis

- A. Ideal climatic conditions for mushroom cultivation are available in Bihar for eight months in a year.
- B. There is lack of positive attitude among farmers for mushroom cultivation in Bihar.
- C. is used less in the food chain of Bihar.
- D. Bihar lacks infrastructure for mushroom storage.
- E. Since last decade, significant efforts have been made by the government for the development of mushroom farming.

Importance of Research

The importance of the presented research will be meaningful in the sense that the high nutritional value of mushroom product will be promoted. Rural self-reliance will expand. Meaningful thinking will be generated among the farmers of mushroom agriculture. The area for mushroom agriculture will expand in Bihar.

Research Method

The presented research method has basically been prepared on the basis of questionnaires and interviews. However, the help of secondary data has also been taken, that is, primary facts have basically been included in the core of the research analysis.

Different Forms of Research Analysis

- A. Conditions required for mushroom cultivation: As we know, mushroom cultivation production depends on climatic conditions and seasonal conditions.
- B. Although it can be cultivated throughout the year with the help of air-conditioned equipment, due to increase in the cost of production, the economic profit of the farmers decreases.
- C. Generally, the temperature of 15 degree-20 degree is ideal for mushroom cultivation. If this temperature is abnormal, it has a negative impact on the mushroom producer. Generally, the months between July to March are considered ideal for its production. Whereas labor cost in this agriculture increases during summer.
- D. A large amount of pure water is required for mushroom cultivation, that is, high humidity is required. Humidity of 70%-80% is ideal for its cultivation, whereas pure water with average PH value is required. I
- E. In rural areas of Bihar, such geographical location is found more than in cities, but it is used more in cities than in villages. Since its production cost is higher than other crops, the result is that its market price increases. , due to which it is used among upper middle class and affluent people.

Basic structures for the production of mushroom agriculture in Bihar:-

As we know, there are four basic infrastructures for mushroom production.

1. Mushroom cultivation requires a specific type of lightless and raw habitat.
2. Mushroom production spoils quickly, hence proper communication route is required, so that the mushroom can be immediately delivered to the consumer.
- A. 3.For the development and expansion of mushroom farming, there is a need for a positive market where it can be sold.
3. A scientific approach is required to understand the properties and benefits of mushroom, especially to understand its health importance, mushroom is like a medicinal food.

Problems and solutions related to mushroom production

As we know that mushroom products are perishable. Hence, transportation system becomes a problem to take it immediately to the market. At normal atmospheric temperature, mushroom starts spoiling within 4 hours. Therefore, there is no need for its storage. Air conditioning (Deep Freezer) is required for mushroom cultivation. Availability of fresh water is also a problem for mushroom cultivation. If the selling market area is far from the mushroom producing area, then the farmers have to suffer losses instead of profits.

To solve all these problems, positive transport arrangements, market arrangements, air-conditioned storage arrangements and training centers will have to be established for training the farmers.

Mushroom agriculture and agricultural economy

Reasonable profit can be made among the farmers with the help of mushroom farming, because basically mushroom farming is included in the form of scientific industrial agriculture. If it is nurtured in a meaningful way then the form of agricultural economy will become meaningful because in mushroom farming. Large amount of human labor is required which will solve the hidden unemployment found in agriculture and allied sectors locally and the economy will be nourished.

Mushroom cultivation and its economic importance

70% of the present population of Bihar is still dependent on agriculture. The increasing population has created an adverse situation due to the increasing pressure on the scarce resource land, as a result the economic income of the farmer is decreasing. The importance of mushroom agriculture is as follows. It is believed that the economic condition of farmers can be changed by growing high cost crops in a limited area. India, which is basically an agricultural country, at present mushroom cultivation can play an important role in providing nutrition to 143 crore people.

Mushroom agriculture and economy of Bihar

Bihar has a high frequency of resource-poor population at the rural level and this resource deprivation is responsible for the negative economic development pattern especially in the rural areas of Bihar. If a positive network is created for mushroom cultivation at the household level and cottage industry level. If this is done then a situation of resource prosperity will arise in rural areas and positive rural development will take place.

In the rural areas of Bihar, due to lack of resources, a negative attitude has developed among the farmers at the psychological level. This negative attitude keeps on weakening the rural economy and the farmers get fed up and start separating themselves from agricultural work. This leads to human migration. This creates a negative trend and increases the regional imbalance of the economy. As we know, mushroom products are perishable, hence proper market also becomes necessary.

Conclusion

From the observation of appropriate research analysis, it becomes clear that if balanced development is done under positive network related to various conditions related to mushroom production in the rural areas of Bihar, then the rural growth of Bihar will move in the direction of self-reliance in the villages of Bihar.

Due to increase in rural profits, a situation of village swaraj will arise in Bihar. For the last 15 years, Bihar government is also engaged in industrializing the agricultural road map.

On 18 Oct 2023, Honorable President of India inaugurated the fourth agricultural map in Patna, through which there is a possibility of promoting industrialization and technicalization of agriculture and allied sectors of Bihar.