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## Mushroom Cultivation for Farmer Existence: A Normative and Economic Review

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**Abstract:** *The purpose of the study is to determine the business of ear mushroom cultivation in increasing farmers' income from a normative and economic perspective. Research site in Tawangmangu Karanganyar. The subject of this study is business actors and employees of the Ear Mushroom House in Tawangmangu, while the object of this study is entrepreneurial opportunities for ear mushroom cultivation based on Sharia glasses. The methods used are interview and observation techniques. The data analysis used is qualitative research. The results of the research show that Mitra Mandiri's business from a Sharia perspective is very prospective and Sharia-compliant, because the acquisition obtained is greater than the resources used, and the implementation of planting does not deviate from the rules prohibited in Islam. This mushroom business is very prospective, but there are several obstacles in cultivating mushroom houses, namely many failed seeds, many pests, long production processes, uneven marketing, and lack of human resources. Although there are obstacles, all obstacles can be solved.*

**Keywords:** *mushroom, farmer, existence, normative, economical.*

### INTRODUCTION

Entrepreneurship, namely the expertise and desire of human beings, will result in investment and fight for time, and funds, and go through a way and make it successful. Islam commands its people to make efforts because the Islamic form of Sharia asserts that "one gives better than one who asks". Trying hard is a form of entrepreneurship. Islam commands that all behaviour should obtain results or services for human beings, even glorifying life by realizing prosperity and being able to for the family or surrounding humans [1].

A business now that has the opportunity and ability is mushroom cultivation. Ear fungus is a form of type of mushroom that is known to many audiences. Ear mushrooms

that are often eaten by humans and bred are black ear mushrooms because they have elastic and chewy meat fibres and have good nutritional content and all forms of minerals, fats, proteins, vitamins and essential amino acids. Mushrooms consist of carbohydrates, high vegetable protein, and low fat like beef but equivalent to other vegetables. Therefore, mushrooms are a suitable option to eat as a way of nutritious menu processing [2]–[4].

The alluring event by the mushroom cultivation entrepreneur, which is a brilliant economic aspect because it does not require a very large place, caring for ear mushrooms is very easy because it splashes a little clean water around the ear mushrooms every day so that the temperature is not dry and carries out treatments to be resisted by pests and other problems, and the circulation of ear mushroom results between 1-5 months, The fungus always increases up to 3 months, initially the baglog should be changed by the new one. Where mushrooms have nutritional value. During the season, mushroom products are not only sold in fresh form but also cooked in the form of ear mushroom dishes. It can be seen that selling ear mushrooms is not just a trending business. This situation makes the prospect of mushroom business and domestic needs quite in demand. The type of mushroom that has been understood is black ear mushroom which is quite liked by the public. Because black ear mushrooms have a large shape, fresh black attractive appearance, and relatively neutral taste they are easy to mix in all dishes, especially ear mushrooms are relatively easy to cultivate and inexpensive [5]–[9].

Along with the times, the level of health concern is increasing, to have a good influence related to changes in the form of food and beverage consumption. This affects the eating of ear mushrooms for preparations that have no chemical elements and are not a health concern. Booming food menus that use ear mushrooms for basic food ingredients [10]–[12].

The unique taste of ear mushrooms makes them increasingly sought after and affects economic prospects. Black ear mushroom, has a good taste, soft structure and chewy. Black ear mushrooms are best for the body because of the lack of cholesterol and are good for heart health. People began to eat ear mushrooms to be used in vegetable dishes [13].

Opportunities are things that can happen to an event to have the opportunity to provide high profits so that the wheels of business can always run. Opportunities are a common form of business that is being conducted in the time to come. Business success depends on the situations of the businessman, either internally or externally. Internal aspects are capital, management, labour, technology level, and others. While external factors are the existence of transportation and communication facilities, technology users can increase acquisitions that require costs and are expected to provide profits for entrepreneurs [14], [15].

Similarly, the ear fungus business requires a marketing strategy. Ear mushroom business is a form of agricultural industry that can be done at home. This business does not require large capital and can be applied outside the home or at home. Ear mushrooms are a type of mushroom that can be eaten for meals with nutritional value and high protein, also the price is not cheap [16]–[19].

Public demand regarding the increasing number of ear mushrooms clearly must be adjusted to growing and sustainable cultivation, because of the increasing problems passed in meeting the demand for ear mushroom production in Indonesia [20].

The implementation of ear fungus seeds requires paying attention to the circumstances that result in success in the production of classy seeds. Conditions that result in success include classy seeds, sufficient production sites, clean water served, production facilities and infrastructure, seed care, and weather. Factors that can be

controlled are classy seeds, available production sites, clean water served and treatment, ear fungus seeds, and pest or disease control. Weather is an uncontrollable factor. One of the efforts to deal with weather problems is to use appropriate technology so that weather problems can be resolved [21]-[23].

Ear mushrooms have a jelly-like shape and are shaped like ears. Nowadays Ear mushrooms are very famous. The soft texture is jelly and the taste is relatively neutral so it is easy to incorporate with various others. Cultivation is not difficult, both in the size of a small business or a large business to have very potential for commercial business [24]-[28].

Industrial business comes from two words, namely business and industry. Business means an activity that uses strength and reason to achieve goals, and work (behavior, effort and steps) to achieve the mission. Industry is a business activity or economic activity that converts raw materials, raw materials, semi-finished goods and finished goods into goods with higher value, which drives activities and thoughts in achieving the mission to receive profits.

Small industrial advances carried out such as ear mushroom cultivation experience various problems or constraints on business development, so this situation will not affect the activities of ear mushroom farmers. Therefore, the business of developing ear mushrooms is expected to stimulate the development of mushroom farmers, through improving welfare, it will affect the number of acquisitions, education, housing, and health [29]-[32].

## **METHODOLOGY**

**Subject and Object of Study.** The subject of this study is business actors and employees of the Ear Mushroom House in Tawangmangu, while the object of this study is entrepreneurial opportunities for ear mushroom cultivation based on the lens of Sharia Economics [33], [34].

**Data Collection Methods.** The data collection method used by researchers is by interview and observation techniques. The method of collection with interview techniques is that researchers explore information or problems to be researched, interviews can be carried out structured or unstructured, that is, researchers can directly carry out interviews following the data to be studied or carry out direct interviews without having the data they want to research. In addition to interview techniques, researchers also carry out data collection methods with observation techniques (observation) directly at the place they want to study so that researchers can understand what is happening in the place of research [35]-[38].

**Data Analysis Methods.** The data analysis method used by researchers is qualitative research, which collects data within a certain period, after which the researcher carries out a series of data observations that are the same as the problem that the author will develop, and finally carries out the process of processing and compiling data the same as the results of interviews and observations [39]-[41].



**Figure 1. Wet Ear Fungus**



**Figure 2. Dried Ear Mushrooms**



## RESULT AND DISCUSSIONS

### Forms of Ear Mushroom Home Business in Tawangmangu

The Tawangmangu ear mushroom house entrepreneur started a business in 2020 until now when business activities were carried out. The ear mushroom house can carry out innovations and developments to show its existence among residents. Based on the results of questions and answers to entrepreneurs and workers of Tawangmangu ear mushroom houses, the author can describe the forms of business carried out for ear mushroom houses in Tawangmangu [42]. Here are some forms of business that are carried out, as described below:

**Providing Wet Mushrooms**, Tawangmangu ear mushroom houses until now can produce ear mushrooms approximately every 5 weeks. Harvesting wet mushrooms pauses the day after watering. Wet mushrooms can also be directly consumed and are widely used as a mixture of dishes. The price per kg of wet ear mushrooms is IDR 10,000,-.

**Provision of Dried Mushrooms**, dried ear mushrooms are mushrooms that have been harvested 3-5 days after harvest, after that they are dried or dried in the sun so that the mushrooms become dry. Dried mushrooms are usually traded again in markets and markets outside the region. The price per kg of dried mushrooms is IDR 50,000,-.



Figure 3. Mushroom Cultivation Baglog

### Supporting and Inhibiting Factors of Ear Fungus Business Prospects

The operation of the ear mushroom business has several components that affect its existence, here are the influencing factors:

**Driving Factors of Mushroom House Business**, driving factors are events that have good qualities that make and build the spirit of a business to be more developed and advanced. Based on the results of questions and answers with entrepreneurs and employees in the ear mushroom business in Tawangmangu [43], the description obtained as a driving aspect of the mushroom house business is as follows:

**Location**, a suitable cultivation location for mushroom cultivation, is a location that has facilities and infrastructure that bear. The infrastructure is clean water and the

infrastructure in question is an attribute that helps the production carried out in organic mushroom houses.

**Capital**, capital includes money or goods used to do business. Land, buildings, vehicles, namely goods can be used as business capital other than cash. Capital is used as a business driver because new mushroom houses can be houses as areas for development, cultivation, and training. While over time mushroom houses have gradually sought large areas of land to maximize their production. While vehicles that encourage marketing and goods to support the production process have been owned by mushroom houses as fixed assets.

**Production capacity**, the production capacity obtained for this mushroom house includes harvesting every month fresh mushrooms and baglog production every day. In such circumstances, it must refer to the number of workers and equipment owned.

Based on the results of questions and answers and observations, mushroom houses still use simple tools and production capacity with not so many quantities, to maximize the results, mushroom houses get fresh mushroom income from partners, the results of training that produces mushrooms in a small capacity (home) or can be said to be a reservoir of crops. After facing the harvest from its partners, organic mushroom houses deposit it into markets, supermarkets, or restaurants that need mushrooms [44].

Post-Harvest Handling and Marketing System. That is the concept of cultivating the harvest, whether it will be sold in the form of fresh mushrooms and some are distributed in dried form. Now mushroom houses have been able to distribute fresh mushrooms and preserved mushrooms (dried in the sun) to traditional markets, restaurants, and outside the province. It is expected that in the future mushroom houses will increase mushroom yields in the form of processed food which further increases the economic value of mushrooms. These processed foods include mushroom chips, rendang mushrooms, shredded mushrooms, and so on [45], [46].



**Figure 4. Spraying mushroom cultivation**

### **Inhibiting Factors of Mushroom Home Business**

Inhibiting factors are negative events that result in obstacles or obstacles to progress in the mushroom home business. Some of the obstacles to the mushroom house business include:

**Business capital**, business capital is considered an obstacle in the jamur house business because based on the results of interviews conducted it was found that for business actors there are anxieties and doubts about returning the capital effort.

**Facilities and Infrastructure Supporting the Mushroom House Business**, mushroom entrepreneurs experience difficulties in transportation if they experience a large amount of harvest. This happens because the facilities are difficult to reach by the business actors themselves. The falling price is influenced by consumers who pick up the harvest directly from the production house. In addition, mushroom entrepreneurs in Tawangmangu still rely on sunlight in drying mushrooms, because no oven is crowded.

**Marketing**, there is another obstacle in the mushroom business in Tawangmangu, namely the payment process. Mushroom houses will benefit quickly when marketing in traditional markets and restaurants. While outside the province, some payments are deferred even though they are suspended, fortunately, they still exist but affect production [\[47\]](#), [\[48\]](#).

### **Solutions to Inhibiting Factors of Organic Mushroom Home Business**

Several ways must be done to deal with the inhibiting factors of the mushroom home business, some ways need to be done, namely:

To gain capital, mushroom home business actors can get from investors by using an approach and showing the opportunities obtained from the mushroom business. Thus, investors are interested in investing. If you do not get investors, mushroom house business actors can make capital loans to financial institutions. If the entrepreneur gets a capital loan, the business must be done well because of course by borrowing the risk borne is also large. There is another option if you do not get a capital loan, namely by setting aside capital little by little so that the capital obtained becomes a lot.

Facilities and infrastructure are the main considerations that must be considered because they must provide a location that provides planting media.

The marketing problem is that it boils down to profit income that will be useful for the self-employed to pay workers and complete the needs of the mushroom business. To maximize marketing must be able to read the market situation and create innovations.



**Figure 5. Mushroom Cultivation Harvesting Activities**

### **Islamic Economic Review of the Existence of Mushroom Houses in Tawangmangu**

Islam is a perfect guide that has given directions to beings on earth in carrying out these temporary activities, as well as in the economic sector. All conditions are explained so that all beings carry out their activities following the provisions in the Qur'an and Al-Hadith. Through adherence to Islamic rules, beings can achieve objects that are not only material but also spiritual [49]–[51].

The spiritual improvement of man in Islam is an essential factor of the concentration of beings and any entrepreneurship undertaken to achieve goals that are not following Islamic law will not work well. In economic activity, both individuals and groups must be in line with religious orders. The welfare described in Islam is not only related to world problems but also related to the issue of the hereafter, so the two cannot be separated and must go hand in hand. In the Qur'an, it has explained how to live in balance between the world and the Hereafter.

Falah is related to ethical values, where ethical values must be practised every day in carrying out activities in daily life. In Islam, Islamic Economic principles are found which have the aim of increasing the ethical goodness of society mentioned in the concept of Falah and contained in the Qur'an. The principle links economic principles with moral values directly. Thus, to achieve prosperity (falah), moral foundations must also be adopted. Thus, it can be concluded that economic activity (business) is a moral activity. This means that all economic activity for Islamic beings must be based on Islamic morality.

#### **The principles of business in Islam include:**

Tawhid (unity). The principle of tawhid (unity) is fundamental in every form of building in Islamic law. All human activities must be based on tawhid. Through the principle of tawhid, Islam offers unity, religious, economic, and social to form a unity of teachings.

Ibahah (ability). Islam gives full opportunity in terms of muamalah. All forms of muamalah are permissible as long as they do not contradict sharia principles. Because in Islam the concept of haram has been clearly explained.

Al-'adl (justice). Fair is a concept that must be used in all aspects of life including life in the economy. This leads to human behaviour in economic activities to avoid the



spotlight. Islam does not allow transactions that contain elements of fraud and so on that harm one party and benefit the other.

Al-Hurriyat (free will). The point is that manunia as a creature of the caliph on earth based on certain limits has free will to direct life to the goal of self-purity.

Accountability. Having unlimited freedom is impossible for a being. Islam teaches that all human actions will be held accountable in the Hereafter. Humans need to be responsible for their actions to meet the demands of justice, including in business activities.

Truth: benevolence and honesty. Truth in business is related to appropriate intentions, attitudes and behaviours. Starting from the contract process, the process of finding or obtaining commodities, even in the process of obtaining profits. Implementation of the principle of righteousness is by volunteerism in business. While honesty is a basic value that must be held in doing business. Success or failure in business is related to honesty.

Ar-rida (willingness). Consensual or voluntary is an important element in carrying out a contract in business. Because this is the main principle in doing engagement.

Benefits. In running a business, there must be benefits that can be obtained. It is forbidden if the business carried out brings madhorot but not the benefits that can be obtained.

The haram of usury. This principle is an application of the principle of justice. The prohibition of riba in economic activities is caused because there is an element of dhulm (persecution) between parties who carry out these activities.

The existence of mushroom house activities in Tawangmangu gives potential residents to use their land to be more prospective and fruitful. Such economic activities will bring falah (welfare) and can meet the needs of human life [\[52\]](#).

The various activities that occur in mushroom houses are following business principles in Islam, these events can be seen in the confusion in mushroom houses that use organic waste that initially has no economic value, replaced as a planting medium (baglog) that has economic value, so that it does not make nature damaged in its production attack. As a result, it becomes more maximum in the use of organic waste in households and from wood production for development. We can see the greatness of Allah SWT in the practice of mushroom cultivation. Behind the rumours that fungi are decomposers of dead organisms, it turns out that fungi bring great economic value and benefits to human life. Mushrooms are also highly efficacious for the Hua tribe in China, used as a basic ingredient for making medicines, and used as food to entertain the country's priests.

Regarding the marketing of mushrooms in Tawangmangu, the accuracy of the scales is checked annually using an honesty system. Then, when the mushrooms arrive at the place of booking, they are weighed again by weight, and each deduction is taken into account as depreciation during the trip. The presence of Mushroom House in Matesi can create jobs that will help the government's program to reduce unemployment in Matesi. Moreover, the training program offered by Mushroom House can give birth to generations of people who want to turn waste into rupiah.

In Islamic economics, as a caliphate on earth, humans are given the freedom to use everything on earth to meet the needs of diverse and many human beings. And if there is a reason, man can think and survive by meeting his own needs. One initiative to meet this need is the development of mushroom houses.

Maximizing mushroom cultivation can make mushroom home businesses achieve prosperity in life in the world. Doing a mushroom cultivation business can lead people

to maximize the worship of the world of khirat because they practice the principles of religion.



**Figure 6. Hasil Panen Budidaya Jamur**

## **CONCLUSION**

A business is said to be productive if the effort is greater than the resources used. Mitra Mandiri's business is prospective because the gains obtained are greater than the resources used. Sharia Review of Mushroom Cultivation Productivity in Mitra Mandiri Business. All resources used in ear mushroom cultivation are land, capital, good quality and selected raw materials, personnel are rewarded according to their ability, but the yield/production of ear mushrooms is carried out by sharia-independent partners including in the cultivation and productivity of oyster mushrooms. Ear mushroom business can play a role in shaping humans into productive humans because time can be used to increase productivity, useful and effective in preventing high blood pressure and heart disease. The obstacles received in cultivating mushroom houses are: First, many seeds fail and are not suitable even though the Planting has been carried out by independent Mira. Second, pests that attack the baglog, namely in the form of cockroaches, and caterpillars, and for those that attack fungi, namely fleas, beetles and others. Third, the production process takes quite a long time, 30-40 days. If the mushroom production period ends while the previous ear mushroom entrepreneur has not prepared the next nursery, the mushrooms will be cut. Fourth, mushroom marketing is uneven, with independent partners only selling at vegetable stalls around Arengka 1 am and Panam market and several sub-districts quite a lot. Please note that the expiration date of this fresh mushroom is 1 day. If it is not sold immediately, store it in the refrigerator for up to 6 days. Therefore, the harvested mushrooms must be marketed immediately. Fifth, the a lack of sufficient human resources who can work on mushroom cultivation. One of the hardest and most risky parts of mushroom cultivation activities is in making planting media (baglogs) that will be given seeds (inoculated). Failure in baglog making will not result in mold growth.

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### Author Contribution

All authors contributed equally to the main contributor to this paper, all authors read and approved the final paper, and all authors declared no conflict of interest.

### Conflicts of Interest

All authors declare no conflict of interest.

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