



COMMUNITY EMPOWERMENT THROUGH THE CULTIVATION OF OYSTER MUSHROOMS IN IMPROVING THE ECONOMY

Mohamad Husni^{*1}, Selda Setianti², Irfan Indriyanto³, Aski Atsriya Paamudiaspuri⁴,
Melly Agustina⁵, Adhiya Fauzan Dhaifulah⁶

^{1,2,3,4,5,6}Universitas Bina Bangsa

Email: mohamadhusni06@gmail.com *

ABSTRACT

Sayar Village has a land area of 1,359,5 hectares with the most significant area being occupied by fields or rice fields of 943 hectares so that the surrounding community works as farmers, but there is still much vacant land that is not utilized optimally by the surrounding community. So, the KKM group 09 Bina Bangsa University carried out an Agricultural Workshop with the theme "Oyster Mushroom Cultivation for the Women Farmers Group (KWT) Hope" held on August 20, 2021. The population and sample of this activity were, Student Work Lecture (KKM) Group 09 Bina University The nation was carried out in Cikentang village, Sayar sub-district, Taktakan district, Serang city. 17 students attended KKM Group 09 out of a total of 1,500 students. Accompanied by 1 (One) Field Supervisor (DPL) for each group. The method of this activity starts from the planning, preparation, agricultural workshop activities, evaluation and reporting of activity results. As a follow-up to the KKM workshop, group 09 made a baglog sterilizer. This received a positive response from members of the Harapan Jaya KWT. By holding this activity, it is hoped that it will be able to encourage entrepreneurial interest in mushroom cultivation, both students and the community in Sayar Village and support sustainability with sufficient income to carry out cultivation activities.

Keywords: Community Service; Community Empowerment; Oyster Mushroom Cultivation

1. INTRODUCTION

Optimal land use can improve the economy of an area. Based on law number 22 of 2019 concerning Sustainable Agricultural Cultivation System. The Sustainable Agricultural Cultivation System aims to improve and expand the dissing of Agricultural products, to meet the needs of food, clothing, boards, health, domestic industries, and increase exports, increase farmers' income and living standards, and encourage the expansion and equalization of business opportunities and employment opportunities. In essence, the management of biological natural resources in producing agricultural commodities better and continuously meets human needs by maintaining environmental sustainability.

The new paradigm carried by Law No. 22 of 2019 on Sustainable Agricultural Cultivation System is a Sustainable Agricultural Cultivation System. In principle, an

agricultural management paradigm integrates four elements, namely environmental, social, cultural, and economic aspects, so that agricultural benefits can be enjoyed for a long time. Sustainable Agricultural Cultivation System is carried out by paying attention to the carrying capacity of ecosystems, mitigation, and adaptation of climate change, and environmental sustainability to realize an advanced, efficient, resilient, and sustainable agricultural system.

Seeing the area of land owned by the Village of Sayar amounted to 1,359.5 Ha with the largest area in the field or rice field of 993 Ha so that the surrounding community works as farmers. There is still much land that has not been utilized optimally so that KKM group 09 Bina Bangsa University took the initiative in conducting agricultural extension to the Harapan Jaya Women Farmers Group (KWT). Kwt was only officially inaugurated directly by The Head of Lurah Sayar Mr. Jaenudin, S.Pd. This agricultural extension is carried out based on law No. 16 of 2006 concerning the Agricultural Extension System, Fisheries and Forestry. Kegiatan KKM Group 09 Bina Bangsa University aims to make more use of vacant land cultivated by agriculture. The Agricultural Workshop entitled "Oyster Mushroom Cultivation to The Women's Farmers Group (KWT) Harapan Jaya" was held on August 20, 2021.

Mushrooms are insancing, debauched, not chlorophyll in the form of cells or branched threads. Because it is not chlorophyll, fungal life takes food that has already been made by other organisms that have died. Oyster mushrooms if we cultivate will benefit double. In addition to its delicious taste contains enough nutrients for human health so that oyster mushrooms can be recommended as a high nutritious food ingredient in the daily menu.

Based on research conducted by mushroom experts at the Ministry of Industry Science Department of Thailand some substances contained in oyster mushrooms or Oyster mushrooms are 5.94% protein; carbohydrates 50.59%; fiber 1.56 %; fat 0.17% and ash 1.14%. In addition to this content, every 100 grams of fresh oyster mushrooms also contains 45.65 calories; 8.9 mg of calcium; 1.9 mg of iron; 17.0 mg phosphorus. 0.15 mg vitamin B1; 0.75 mg of vitamin B2 and 12.40 mg of vitamin C. From the results of clinical medical research, scientists suggest that the content of chemical compounds typical of oyster mushrooms efficacious to treat various human diseases such as high blood pressure, diabetes, excess cholesterol, anemia, increase the body's resistance polio and influenza attacks and malnutrition.

Mushroom cultivation is not new for Indonesian society in general. The hot climate of our country with high enough humidity, is the ideal condition for the growth of various types of fungi. Some types of fungi that have been widely known and cultivated in Indonesia include merang mushroom (*Volvariella volvacea*), ear fungus (*Auricularia auricula*), shitake fungus (*Lentinula edodes*) and white oyster mushroom (*Auricularia polytricha*) (Susilawati & Raharjo, 2010; Hariadi et al., 2013).

One very prominent aspect is the increasing welfare of the community (Central Static Agency, 2013) and one of the indicators is the change in people's consumption patterns in the fulfillment of nutrition and food. The availability of oyster mushrooms in the market is still limited, but the demand of oyster mushrooms continues to increase.

The purpose of the Agricultural Workshop themed "Oyster Mushroom Cultivation to The Women's Group of Farmers (KWT) Harapan Jaya" in order to be able to utilize the

land optimally and can meet the availability of Oyster Mushrooms in the market so that later it will improve the economy of the Sayar Village community.

METHOD

Student Work Lecture (KKM) Group 09 Bina Bangsa University was conducted in Cikentang Village, Sayar Village, Taktakan District of Serang City. KKM Group 09 followed 17 students from a total of 1,500 students. Accompanied by 1 (One) Field Guidance Lecturer (DPL) each group. The implementation of KKM 09 UNIBA activities in the Agricultural Workshop themed "Oyster Mushroom Cultivation to Whita Tani Group (KWT) Harapan Jaya" held on Friday, August 20, 2021. Starting from the planning stage, preparation, agricultural workshop activities, evaluation and reporting of the results of activities.

Planning activities include deliberation with Mrs. Ani as Chairman of the Women's Peasant Group (KWT) Harapan Jaya. The preparation stage includes the place of activities to be carried out and the needs of materials and equipment activities. In the Agricultural Workshop, activities include exposure to Oyster Mushroom Cultivation, benefits that depend on Oyster Mushrooms, sales calculations, and most importantly, making Oyster Mushrooms. The evaluation stage includes how this activity takes place and the response received from the audience in the activity.

In the Agricultural Workshop activities held by KKM group 09 Bina Bangsa University some tools and materials need to be prepared. Among others, the literature of oyster mushroom cultivation business, oyster mushroom isolation equipment. The initial seeds of oyster mushrooms were obtained from the source of mr. Fahmi Kurniawan, S.Pd. as the cultivation of home industry oyster mushrooms. In addition, sterilization tools are needed both tools and sterilization media, baglog, and oyster mushroom cultivation

RESULTS

Seeing the situation around sayar village still lacks optimal land use. Lurah Sayar Mr. Jaenudin, S. Pd. Said that ada Group of Peasant Women (KWT) Harapan Jaya, which he just inaugurated directly. Hearing this, we KKM Group 09 Bina Bangsa University provide knowledge about land use by cultivating Oyster Mushrooms. This activity received a positive response from the village and also KWT Harapan Jaya. Therefore, we conducted an Agricultural Workshop entitled "Oyster Mushroom Cultivation to The Harapan Jaya Peasant Women's Group (KWT) held on August 20, 2021. With the source who has plunged directly in the world of Oyster Mushrooms, mr. Fahmi Kurniawan, S. Ak. He sends 100 kg of oyster mushrooms every day. However, the existing inventory has not sufficiently met the interest in the market.

We work with sources to provide a little knowledge about Oyster Mushroom Cultivation. In the Agricultural Workshop activities, the speakers gave an idea of how to make baglogs and explain everything needed to cultivate oyster mushrooms. After the Agricultural Workshop activity was completed, KWT Harapan Jaya members gave a positive response seen by further questions about this cultivation. Not until here KKM group 09 UNIBA follow up the implementation of this Agricultural Workshop activity by

making sterilization tools from goods that we quickly get. It only requires drums, bamboo, thick triplets and tarpaulins. Making this Sterilization tool is expected to help KWT Harapan Jaya in the implementation of oyster mushroom cultivation that will be beguiled by sources. Later if KWT Harapan Jaya succeeds in cultivating oyster mushrooms will cooperate in marketing. Currently the price of oyster mushrooms in the market reaches 12,000 / kg from the price of farmers. In this activity, KWT Harapan Jaya gained knowledge about Oyster Mushroom Cultivation and taughthow to entrepreneurship well and correctly with bookkeeping in every transaction that occurred. The income earned later can help the member economy.

Figure 1 Agricultural workshop activities



CONCLUSION

With the Implementation of KKM group 09 Bina Bangsa University in sayar village and the implementation of one of the work programs in the Field of Appropriate Technology and Information Technology in the workshop themed "Oyster Mushroom Cultivation to The Women's Farmers Group (KWT) Harapan Jaya" which was held on August 20, 2021. Our hope is that this program can encourage the entrepreneurial interest of mushroom cultivation, both students and communities in the village and able to support sustainability with enough income to hold cultivation activities. This activity can be a reference for the next KKM activity and become an evaluation material if there is a shortage of the group before it, this is so that community service activities are not limited to the past and existing programs can be sustainable.

REFERENCES

Agustini, V., Sufaati, S., Bharanti Elita, B., and Runtuboi, P.Y. D., 2018, Budidaya Jamur Tiram Putih (*Pleurotus Ostreatus*) Sebagai Percontohan Dan Unit Usaha Budidaya Jamur (Uubj) di Universitas Cenderawasih, Jurnal Pengabdian

Masyarakat MIPA Dan Pendidikan MIPA, Vol.2 No.1, telah diakses pada 4 September 2021 di <https://journal.uny.ac.id/index.php/jpmmp/article/view/16160/pdf>
Dinas pertanian jawa timur, 2007, Budidaya Jamur Tiram, telah di akses pada 4 September 2021 di <https://nad.litbang.pertanian.go.id/ind/images/dokumen/modul/25-BudidayaJamurTiram.pdf>
Jogloabang, 2019, UU 22 tahun 2019 tentang Sistem Budi Daya Pertanian Berkelanjutan, telah diakses pada 4 September 2021 di <https://www.jogloabang.com/pustaka/uu-22-2019-sistem-budi-daya-pertanian-berkelanjutan>
DPR, 2006, Sistem Penyuluhan Pertanian, Perikanan, Dan Kehutanan telah di akses pada 4 September 2021 di https://www.dpr.go.id/dokjdi/document/uu/UU_2006_16.pdf