

Thanakorn Prichani 2013: Feasibility Study of Eryngii Mushroom Production
Investment under Closed System. Master of Arts (Agribusiness), Major Field:
Agribusiness, Department of Agricultural and Resource Economics. Thesis Advisor:
Associate Professor Sanit Kao-ian, M.S. 149 pages.

The purposes of this research are to study general situation of Eryngii mushroom production under closed system, to conduct a feasibility study on investment project of Eryngii mushroom production under closed system, and to analyze the feasibility of the project when considers risk and uncertainties. This study used primary data brought from interviewing 2 manufacturers of Eryngii mushroom growing in closed system manufacturers; one in Pathum Thani province and another one in Saraburi province which was the reference case of this project. In this research, 4 factors including marketing, technical, managerial and financial factors were considered and analyzed.

According to the study results. Its feasibility showed positive net present value which was 18,643,830 Baht including the benefit-cost ratio and Internal Rate of Return were 1.15 and 17.43%, respectively. However, the results of sensitivity analysis showed that for the case of Labor cost was increased 10% or mushroom price was decreased by 10% or raw material cost was increased by 10% or this Labor cost and price were respectively increased and decreased by 10%, the investment project would become infeasible. NPV of each would be negative which would be 16,487,378 4,775,721 14,610,778 and 2,619,268 Baht while BCRs were 1.13 1.04 1.11 and 1.02, respectively. In addition, IRRs for these cases were 16.28% 9.86% 15.29% and 8.58%, respectively. It was found that the investment project still has the feasible. Furthermore, the results showed that the project had Switching Value of Cost 14.97% whereas Switching Value of Benefit 13.02%. This implies that, to maintain feasibility situation of the project, the project cost could be increased only by 14.97% and the project benefit could be decreased only by 13.02% which both values were in low level. It indicated that the project would have high risk to invest.

Student's signature

Thesis Advisor's signature