

CHAPTER VI

CONCLUSIONS

This chapter contains the research conclusions and suggestions for further research.

6.1 Conclusions

Conclusions of this research are as follows:

1. This study has proposed a chili sauce production planning model considering sweet potato availability using nonlinear programming method at PT Bina Usaha Keluarga Sedep Roso.
2. Based on the solution of the model, the profit increased approximately Rp1.534.057.981,- until Rp 1.646.134.669 and the service level increased approximately 16% - 17% compared with the existing policy.
3. Based on the sensitivity analysis, the parameter of fixed cost, inventory carrying cost, stockout cost, electrical cost, firewood cost, warehouse capacity, and production capacity are insensitive to the profit according to the solution of the model. The changes of the parameter value of variable cost and supply capacity are sensitive to the profit. It shows how much influence the change in parameter value of variable cost and supply capacity to the profit and to inform the company the cost for these changes. Controlling tightly these parameters is important to maintain the profit.

6.2 Suggestions

Suggestions for further research are as follows:

1. For further research, it is necessary to develop an integrated information system for the entire company.
2. It is necessary for the company to add more supplier to meet the demand.