

CHAPTER V

CONCLUSION

This chapter consists of a conclusion and suggestions. The conclusion explains the summary and the synthesis of key points of the study. The suggestions recommend the study for further research.

5.1 Conclusion

The conclusion of this study is explained as follows:

1. The baking oven is designed based on the user requirements. There are 20 user requirements based on capacity, performance, ease of use, ease of maintenance, safety, and aesthetic aspects.
2. The designed baking oven is the rotary rack oven, with a capacity of 32 sheet pans in a trolley. The overall dimension of the baking oven is 1,930 x 1,530 x 1,980 mm.
3. The total energy requirement for baking one batch production of white bread is 37,226.52 kJ. The total energy consumption of LPG for baking one batch production of white bread is 1.27 kg. The cost of energy consumption is Rp155.92 per loaf of white bread.
4. The total cost for building the baking oven is Rp78,033,260. The depreciation cost for the baking oven is Rp40.39 per loaf of white bread.

5.2 Suggestions

The suggestions related to the study for further research are explained as follows:

1. The process design of the baking oven could be continued until phase III (process planning) and phase IV (production operation planning) of Quality Function Deployment (QFD).

2. The design of the baking oven can be used by the workshop in Padang to develop and build the baking oven. This can help small and medium industries of the bakery segment in buying baking ovens at a lower price.
3. The prototype of the baking oven should be built to evaluate the baking oven design.

