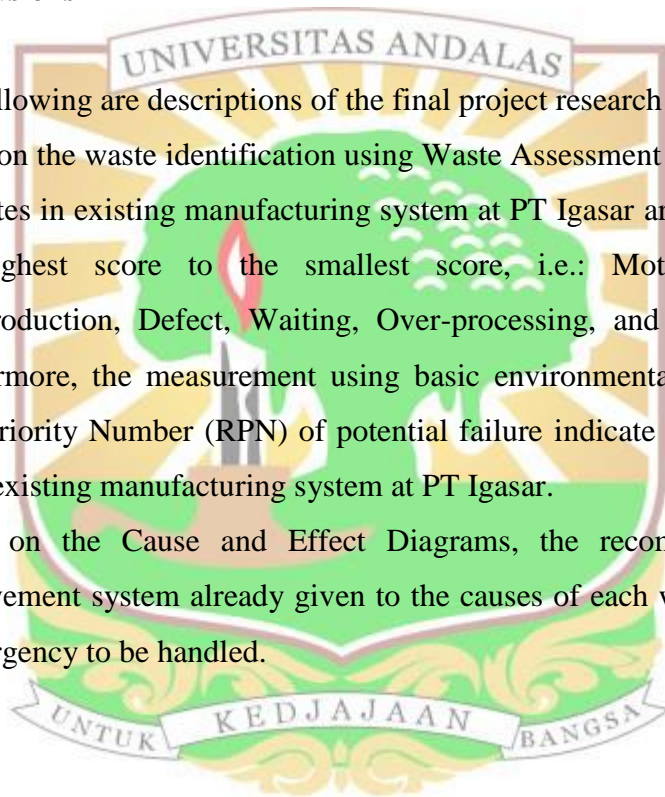# CHAPTER VI
CONCLUSIONS

This chapter contains the conclusions of the research results and suggestions for future research.

5.1   Conclusions

The following are descriptions of the final project research conclusions:

1. Based on the waste identification using Waste Assessment Model, the rank of wastes in existing manufacturing system at PT Igasar are obtained from the highest score to the smallest score, i.e.: Motion, Inventory, Overproduction, Defect, Waiting, Over-processing, and Transportation. Furthermore, the measurement using basic environmental measures and Risk Priority Number (RPN) of potential failure indicate that there waste in the existing manufacturing system at PT Igasar.

2. Based on the Cause and Effect Diagrams, the recommendation for improvement system already given to the causes of each waste which has high urgency to be handled.

5.2   Suggestions

The suggestions for further research are as follows:

1. The object of waste minimization may be expanded to the whole department in PT Igasar Batching Plant Padang to get the comprehensive result of the entire of the company.

2. The object of failure in Failure Mode and Effect Analysis can be expanded to another process in PT Igasar so the company can prevent disturbance by knowing the possible risks and make risk reduction strategies.

3. For the future research, it is better to do a minimum limit calculation for each waste when giving recommendations to the company. The method used to calculate each waste is different so further research is needed to analyze the limits in reducing wastes.