

## CHAPTER VI

### CONCLUSION AND SUGGESTION

#### 6.1 Conclusion

Based on the results, below is the several conclusions that obtained from this study:

1. The DPMO value and sigma level value of 3 production batches for each month or each production time are as follows.
  - DPMO = 43527
  - Sigma level = 3.23
2. The Risk Priority Number (RPN) of the process after being calculated by Fuzzy AHP-FMEA are as follows.
  - *Sapon* = 4.73
  - *Curah* = 5.42
  - Dust = 4.78
  - Production = 7.71

Therefore, based on the evaluation, the rank of the defect is shown below.

- Rank 1 = Production
  - Rank 2 = *Curah*
  - Rank 3 = Dust
  - Rank 4 = *Sapon*
3. Suitable improvement for production that has the highest RPN is shown below.
    - Vibrating screen sensor checking
    - Magnetic separator sensor checking
    - Sew back the moist sugar in the sack

4. Suitable control for production that has the highest RPN is shown below.
- Vibrating screen checking is handled by production officer, shift chief, and vibrating screen operator in shift 1, shift 2 and shift 3.
  - Magnetic separator checking is handled by production officer, shift chief, and magnetic separator operator in shift 1, shift 2 and shift 3.
  - Sew back the moist sugar in the sack is handled by production officer, shift chief, and *curah* operator in shift 1, shift 2 and shift 3.

## 6.2 Suggestion

The suggestions that can be provided from the results of this research both for the company and further researches are:

1. For the company, the research of product defect analysis can be used as consideration and evaluation for the company in improving the quality of product on Gulaku department.
2. For further research, improvement could be implemented in control stage to see the differences of the result before and after improvement.