

## CHAPTER VI

### CONCLUSION AND RECOMMENDATION

#### 6.1. Conclusion

1. By using Genetic Algorithm for making proposal scheduling, the results are better than the initial scheduling. Firstly, there are location of workers in one day that exceeds the quota of the number of workers that is 75 people. Second, the completion time of all maintenance work is in accordance with the deadline given, which is 5 months. Third, the allocation of labour resources is carried out evenly in one day, in order to reduce workers who are unemployed and increase the productivity of workers themselves with a deviation value of 5 months only at 12.14.
2. To prove that the scheduling of proposals is better than the initial scheduling, the labour costs incurred need to be calculated to be compared. For scheduling prefixes with a monthly contract system, a fee of Rp. 704.900.000. As for the scheduling of proposals for the two ways the contract is obtained Rp. 647.900.000. It can be concluded that proposal scheduling is better than the initial scheduling in terms of the cost of the workers allocated.

#### 6.2. Recommendation

1. Increase the number of generations in GA Generator and showing the better model for GA with more parameters so that the results of the solutions obtained are more optimal.

2. It is expected to be able to make a more complex flow map on work's order before doing other work so that the work planning is made more mature and in accordance with the actual situation.