

CHAPTER VI

CONCLUSION

This chapter explains the conclusions of the research that has been done and suggestions for further research development.

6.1 Conclusion

This study produces a mathematical model of fine coal transfer scheduling from Coal Mill 4K3 machine to Kiln Indarung II/III and IV, with the objective is to minimize the total deviation between theoretical and actual fine coal quantity, so the clinker production is in accordance with the clinker's RKAP. The model is made able to determine the transfer decision on the day- i for the work hours- j for Kiln- k optimally. The deviation for each Kilns is decrease, the total deviation between theoretical and actual fine coal quantity in Indarung II from 48% to be 5%, Indarung III from 36% to be 3%, Indarung IV from 33% to be 8%. Total deviation for three Kilns from 39% to be 6%.

6.2 Suggestion

Suggestions given for further research development are as follows:

1. The fine coal transfer scheduling model for further research is carried out by considering the time of damage and maintenance of the Coal Mill 4K3 machine and Kiln machine.
2. The fine coal transfer scheduling model can be developed more flexible by adding restrictions so that the Coal Mill 4K3 machine does not have to work without stopping.