



## TABLE OF CONTENTS

APPROVAL SHEET .....	1
DECLARATION OF AUTHENTICITY .....	2
FOREWORD .....	3
TABLE OF CONTENTS .....	5
LIST OF FIGURES .....	8
LIST OF TABLES .....	9
ABSTRAK .....	10
ABSTRACT .....	11
CHAPTER 1 .....	12
1.1 Background Problem.....	12
1.2 Research Problem.....	16
1.3 Research Question.....	17
1.4 Research Purposes.....	17
1.5 Research Benefits.....	18
1.6 Research Scopes.....	18
1.7 Research Writing System.....	19
CHAPTER II.....	20
2.1 Project Finance.....	20
2.2 Financial Statement Analysis.....	21
2.2.1 Balance Sheet Statement.....	21
2.2.2 Income Statement.....	23
2.2.3 Cash Flow Statement .....	23
2.2.4 Financial Ratios.....	24
2.3 Investment Decision.....	27
2.4 Capital Budgeting .....	29



2.4.1 Net Present Value.....	29
2.4.2 Internal Rate of Return (IRR) .....	30
2.4.3 Payback Period.....	31
2.5 Sensitivity Analysis.....	32
CHAPTER III .....	33
3.1 Research Design.....	33
3.2 Data Source and Types.....	33
3.3 Data Analysis Method .....	34
CHAPTER IV .....	38
4.1 Toll Rates .....	38
4.2 Toll Road Life Cycle.....	40
4.3 Toll Road Segment XY Compliance .....	41
4.4 Historical Balance Sheet Summary.....	43
4.5 Historical Data of Income Statement .....	45
4.6 Historical Data of Cash Flow .....	49
4.7 Historical Ratio .....	50
4.8 Projection of Financial Statement .....	52
4.8.1 Assumption of Average Traffic Road and Tariff .....	52
4.8.2 Projection of Income Statement .....	54
4.8.3 Projection of Balance Sheet Summary.....	57
4.8.4 Projection of Free Cash Flow.....	59
4.9 Capital Budgeting Analysis .....	60
4.9.1 Net Present Value Result .....	60
4.9.2 Internal Rate of Return Result.....	61
4.9.3 Payback Period.....	62



4.10 Sensitivity Analysis Scenario.....	63
4.10.1 Change of Average Daily Traffic.....	63
4.10.2 Change of Tariff .....	63
4.10.3 Change of Maintenance Cost .....	64
4.10.5 Result of Analysis .....	65
CHAPTER V.....	66
5.1 Conclusion .....	66
5.2 Recommendation.....	67
5.3 Limitation of the Research .....	68
REFERENCES.....	69
LIST OF APPENDIXES.....	72
APPENDIX 1 .....	73
APPENDIX 2 .....	74



## **LIST OF FIGURES**

Figure 1. 1 Trans Java Toll Road Maps .....	10
Figure 3. 1 Research Method Process .....	30
Figure 4. 1 Toll Road Life Cycle .....	35
Figure 4. 2 Average Daily Traffic 2016 – TW12021.....	41



## **LIST OF TABLES**

Table 3. 1 Description of Capital Budgeting Formula.....	35
Table 3. 2 Description of Variable .....	36
Table 4. 1 Toll Road Tariff .....	38
Table 4. 2 Minimum Service Standard Compliance .....	41
Table 4. 3 Construction Cost Detail.....	42
Table 4. 4 Historical Balance Sheet Summary.....	44
Table 4. 5 Detail of Long Term Debt PT B .....	45
Table 4. 6 Income Statement Summary .....	45
Table 4. 7 Construction Revenue and Expense.....	47
Table 4. 8 Historical Cashflow Summary .....	49
Table 4. 9 Historical Financial Ratio .....	51
Table 4. 10 Average Daily Traffic Growth Assumption .....	53
Table 4. 11 Tariff Growth Assumption.....	54
Table 4. 12 Projection of Income Statement.....	57
Table 4. 13 Projection of Balance Sheet Summary.....	57
Table 4. 14 Projection of Free Cash Flow.....	59
Table 4. 15 Estimate of Enterprise Value .....	60
Table 4. 16 NPV Result .....	61
Table 4. 17 IRR Result.....	62
Table 4. 18 Payback Period Result .....	62
Table 4. 19 Sensitivity Testing for ADT.....	63
Table 4. 20 Sensitivity Testing for Tariff .....	64
Table 4. 21 Sensitivity Testing for Maintenance Cost.....	64
Table 4. 22 Sensitivity Testing for Interest Rate .....	64