

LIST OF CONTENT

APPROVAL FORM	ii
ORIGINAL STATEMENT FORM.....	ii
ABSTRACT	iv
PREFACE.....	v
ACKNOWLEDGEMENTS.....	vi
LIST OF CONTENT	viii
LIST OF FIGURE	x
LIST OF TABLE	xi
LIST OF ABBREVIATIONS	xii
GLOSSARY.....	xiii
Chapter I Introduction.....	1
I.1 Background	1
I.2 Problem Formulation	4
I.3 Research Objectives	4
I.4 Research Limitation and Assumptions	5
I.4.1 Research limitation	5
I.4.2 Assumptions.....	5
I.5 Research Benefits.....	5
I.6 Systematics Of Writing	6
Chapter II Literature Review	8
II.1 Definition of Scheduling.....	8
II.2 The Purpose Of Scheduling	9
II.3 Project Scheduling	9
II.4 Project Scheduling with Limited Resources	11
II.5 <i>Linear Programming</i>	13
II.6 <i>Integer Linear Programming</i> on RCPSP	14
II.7 The Reason for The Selection Method	18
II.8 Previous Research	19
Chapter III Research Methodology	20
III.1 Conceptual Model	20
III.2 Problem Solving Systematic	21
III.2.1 Introduction Phase.....	22
III.2.2 Data Collection and Processing Phase	23

III.2.3	The Analysis Phase	26
III.2.4	The Conclusions and Suggestions.....	27
Chapter IV	Data Collection and Processing	28
IV.1	Data Collection	28
IV.1.1	Company Profile	28
IV.1.2	Vision dan Mission	29
IV.1.3	<i>Supplier</i> who did the unloading pocess in the warehouse 1	29
IV.1.4	Cycle Issue Data of each Supplier in the raw material warehouse 1.....	30
IV.1.5	Type of components (<i>SKU</i>) that are carried by each supplier .	31
IV.1.6	The unloading process time data by the supplier in the raw material warehouse 1	32
IV.1.7	Data on the amount of material handling equipment and man used for unloading.....	34
IV.1.8	The Actual Condition at PT. SMA	34
IV.2	Data Processing.....	37
IV.2.1	Define variables, parameters, and variables measurement	37
IV.2.2	Create Network Diagram and Network Planning	39
IV.2.3	Creating Integer Linear Programming Model.....	44
IV.2.4	Calculate Linear Integer Programming Model using Matlab 7.8.0.....	51
Chapter V	Analysis	54
V.1	Data Processing Result Analysis.....	54
V.1.1	Analysis Of The Existing Condition Of Scheduling Suppliers	54
V.1.2	Analysis Of The Results Of Calculation Of Integer Linear Programming.....	54
Chapter VI	Closing.....	59
VI.1	Conclusion	59
VI.2	Suggestions	59
VI.2.1	For Company	59
VI.2.2	For Next Research	59
REFERENCES.....		60