

TABLE OF CONTENT

APPROVAL SHEET	i
ORIGINALITY STATEMENT PAGE.....	ii
ABSTRAK	iii
ABSTRACT	iv
PREFACE	v
GLOSSARY.....	xiv
CHAPTER I	1
INTRODUCTION	1
I.1 Research Background	1
I.2 Problem Formulation	4
I.3 Objectives	4
I.4 Benefits of Research	5
I.5 Research Limitations	5
I.6 Writing Systematics	6
CHAPTER II.....	7
LITERATURE REVIEW.....	7
II.1 Coffee	7
II.1.1 Types of Coffee	7
II.1.2 Coffee Post-Harvest	9
II.1.2.1 Harvest.....	9
II.1.2.IV. In Wet Process (Fully Washed).....	12
II.2 Feasibility Study	19
II.3 Sensitivity Analysis	31
II.4 Risk Analysis.....	32
CHAPTER III	33
RESEARCH METODOLOGY	33
III.1 Conceptual Model	33
III.2 Problem Solving Systematics.....	35
III.2.1 Initial Identification Stage.....	37
III.2.1.1 Problem Identification.....	37

III.2.1.2 Problem Formulation	38
III.2.1.3 Research Objectives	38
III.2.2 Data Collecting Phase	39
III.2.2.1 Market Data Collection	39
III.2.2.2 Technical Data Collection	39
III.2.2.3 Financial Data Collection.....	40
III.2.3 Data Processing Phase	40
III.2.3.1 Determine the Market Aspect	40
III.2.3.2 Determine the Technical Aspect	42
III.2.3.3 Determine the Financial Aspect	42
III.2.4 Analysis Phase	43
III.2.IV.1 Investment Feasibility Analysis	43
III.2.IV.2 Sensitivity and Risk Feasibility Analysis	43
III.2.5 Conclusion and Suggestion Phase.....	44
CHAPTER IV	45
COLLECTING AND DATA PROCESSING	45
IV.1 Research Location Profile.....	45
IV.2 Market Aspect.....	46
IV.2.1 Calculation of Market Targets Based on Historical Data	46
IV.2.1.1 Forecasting Harvest Using Least Square Method.....	47
IV.2.1.2 Determining Total Production of Non-Harvest Coffee Products	50
IV.2.2 Comparison to Other Method	52
IV.2.2.1 Non-Linear Forecasting Method.....	52
IV. 2.3 Determining The Best Method To Use	57
IV. 2.3.1 Calculating Error in Least Square Method	57
IV.2.3.2 Calculating Error in Non-Linear Method	57
IV.2.3.3 Determining Method With Smaller Error	58
IV. 2.4 Production and Selling Plan.....	58
IV.2.4 Marketing Strategy.....	60
IV.2.4.1 STP (Segmenting, Targeting, Positioning)	60
IV.3 Technical Aspects	61

IV.3.1 Facility Location	61
IV.3.2 Operation Process Chart	61
IV.3.3 Machine and Tool Specifications	65
IV.3.4 Machine Requirement.....	66
IV.3.5 Building Layout	69
IV.3.6 Workers Requirement	72
IV.4 Financial Aspects	73
IV.IV.1 Estimated Cost of Implementation of New Facilities Development Arjuna Coffee.....	73
IV.4.2 Calculation of Investment Feasibility Parameters	77
CHAPTER V.....	83
DATA ANALYSIS	83
V.1 Market Aspect	83
V.2 Technical Aspect.....	84
V.3 Financial Aspect and Projection of Feasibility	86
V.4 Sensitivity and Risk Analysis.....	87
V.2.1 Sensitivity Based on Number of Raw Materials	87
V.2.2 Sensitivity Based on Raw Material Price	88
V.2.3 Sensitivity Based on Selling Price	89
V.2.4 Graph on Sensitivity	90
V.3 Risk Analysis	91
CHAPTER VI	93
CONCLUSIONS AND RECOMMENDATIONS	93
VI.1 Conclusions.....	93
VI.2 Suggestions	95
BIBLIOGRAPHY	96