



UNIVERSITI TEKNOLOGI MARA

REPORT ON INDUSTRIAL TRAINING AT
AGRICULTURE RESEARCH STATION
LAGUD SERBANG, TENOM

EASTHER GALIGEY (2011687724)

RUFINA BINTI JINIS (2011895776)

SHAHZUNAH KAMARUDZAIN (2011422942)

DIPLOMA IN PLANTING INDUSTRY MANAGEMENT
FACULTY OF PLANTATION AND AGROTECHNOLOGY

NOVEMBER 2013 - APRIL 2014

ACKNOWLEDGMENT

We are grateful to God for His blessing and guidance during our industrial training at Agriculture Research Station, Lagud Sebrang, Tenom . Now, 14 weeks of our industrial training was ended successfully from November 25, 2013 until February 28, 2014. I owe a great thanks to many great people who helped us and supported us during my industrial training at ARS, Tenom.

First and foremost, we would like to express our deepest thanks to Mr. Salim Tingek, Deputy Director Research of Agriculture Research Station, Tenom for accepting us to undertake training at the station. We would also like to express my gratitude to our training supervisor, Mr. Herbert Lim (Research officer) for his guidance, motivation, kindness and treating us as his own child. It was never enough to thank him for all he had done for us and it was wonderful to meet such a great person like him.

We would also like to thank Mrs. Ho Hin Yang, Mr. Stanley Chew , Mr. Simson Dayung, Mr. Idris K. Ambun, Mr. Christopher Motiun, Mr. Wilbur Anggap, Mr. Assan Aping, Mr. Anthony Joseph, Mr. Andu Basayu, Mr. Raboh Hadi, Mr. Fredoline Aloysius, Mr. Pius Joseph, Mr. Pountis Gumail, Mr. Naruddin Tundau, Mr. Malahang Itet, Mr. Jaidin Jali, Mr. Anthanasius Kalitu, Mr. Majius Sundaling, Mr. Rimin Maun and all the staffs at ARS, Tenom.

Hundred of thanks to Mr. Hamjah Rusli ,our Coordinator of Industrial Training Program and all the lecturers of Faculty of Plantation and Agrotechnology. Word is never enough to thank all the people who helped us during our industrial training and only God can repay them.

TABLE OF CONTENT

Description	Page
STUDENT DECLARATION	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENT	iv-v
LIST OF TABLE	vi
LIST OF FIGURE	vii
CHAPTER I: INTRODUCTION	1-9
1.1 Background	
1.2 Objective	
1.3 Organization Chart	
1.4 Tentative Training Schedule	
CHAPTER II: ACTIVITIES	10
2.1 ADMINISTRATIVE SECTION	
2.1.1 Accounting Management	
2.1.2 Computer Management	
2.1.3 Library Management	11-13
2.1.4 Chief Draw Division	
2.1.5 Clerical Management	
2.2 STATION MANAGEMENT	
2.2.1 Introduction	14-15
2.2.2 Human Resource Management	
2.2.3 Store Unit	
2.3 NURSERY UNIT	
2.3.1 Introduction	16-22
2.3.2 Objective	
2.3.3 Plant Breeding	
2.4 FRUITS RESEARCH SECTION	
2.4.1 Introduction	
2.4.2 Objective	
2.4.3 Fruit Trees	23-36
2.4.4 Activity Report(Pheromone Trap Project)	
2.4.5 Result	
2.4.6 Fruit Trees for Pheromone Trap Project	
2.4.7 Conclusion	
2.5 BEVERAGE CROPS SECTION	
2.5.1 Introduction	
2.5.2 Organization Chart	37-52
2.5.3 Cocoa Unit	
2.5.4 Coffee Unit	

2.6 FOOD CROPS SECTION 2.6.1 Introduction 2.6.2 Objective 2.6.3 Collection of Crops 2.6.4 Food Crop Fields 2.6.5 Seed Storage 2.6.6 Seed Germination Test 2.6.7 Meteorological Station	53-63
2.7 BEEKEEPING SECTION 2.7.1 Introduction 2.7.2 Objective 2.7.3 Introduction to Honey Bee 2.7.4 Apiary Location 2.7.5 Equipments 2.7.6 Transferring Bee Colony from Gelodog to Hive 2.7.7 Apiary and Hive Management 2.7.8 Queen Bee Breeding 2.7.9 Pest and Diseases of Bee	64-74
2.8 HERBS AND AGROFORESTRY SECTION 2.8.1 Introduction 2.8.2 Herbs and its Uses 2.8.3 Herbs Propagation	75-93
CHAPTER III: CONCLUSION 3.1 Recommendation	94-96
CHAPTER IV: REFERENCES	97-98
CHAPTER V: APPENDICES	99-101

1.1 BACKGROUND



Figure 1: Main office of Tenom Agriculture Research Station.

Tenom Agriculture Research Station was started in 1971 as supplementary Cocoa Research Station at Tawau. However, in 1981, the research scope had been expanded to multicrop field research station that covered coffee, cocoa, fruit trees and food crops, with other Ministry projects that conducted within the station area.

The Station was located at Lagud Seberang which was 15Km to the north-east of Tenom and occupies a gazetted area of 625 hectares, of which 60 hectares are allocated to other project. The terrains and soils of the station are representative of the Tenom Valley with just over half the station on alluvial plain dissected by river cut-offs and ox-bow lakes and the balance consisting of raised alluvial terrace extending the undulating to steep-sided hills with soils derived from sandstones and shales.