



**UNIVERSITI TEKNOLOGI MARA**

**REPORT ON INDUSTRIAL TRAINING AT  
BORNEO SAMUDERA SDN BHD  
PITAS ESTATE**

**NURUL ASYINAH BINTI ROSLEE**

**DIPLOMA IN PLANTING INDUSTRI AND MANAGEMENT  
FACULTY OF PLANTATION AND AGROTECHNOLOGY**

**SEPTEMBER 2013**

## **ACKNOWLEDGEMENT**

In the name of God, Most Gracious, the Merciful. Peace and blessings be upon Prophet Muhammad. Allhamdullillah, thanks to Allah SWT with his permission and blessing this project paper had been completed.

I take this opportunity to express my sincere thanks and appreciation to all involved that give encouragement and support to me. Especially to Mr. Rusli Hamjah our lecturer because providing a coach and guidance in the realization of this project paper.

The unforgettable sacrifice my loved ones my only mother, which always show patience, encouragement and belief that I was able to fight particular ambitions, her husband and children. Thank you for being so understanding. For mother, father, brother and sister, thank you for the support guys.

Indeed, this project paper could not be completed without the support of all parties either directly or indirectly. May ALLAH blessed all the efforts

## EXECUTIVE SUMMARY

I have to undergo industrial training for 3 months starting 10 June 2013 to September 13, 2013. During my industrial training in Pitas Estate, I have learned about the introduction of a functional group and each employee organization in the management of their companies comprising the heads of the Estate manager, assistant manager, estate management chief, officer, chief clerk of the office management, clerk of the employee passport management, store management officer, store clerk and assistant clerk of the office. Pitas estate has an area 1464.67 ha. Types of crops planted palm is dura x tenera Pisifera = (avros). In addition, I also learned managing of the operation in the field in terms of weed control in oil palm plantations, to identify the types of weeds that are in the farm, which is suitable for using poison weed control, cost estimation techniques overall nature of work performed by employees in the field. In addition to the management office of the foreign workers' passports, plantop system to speed up the calculation of the costs involved, namely the harvesting of farm products, items for the farm as well as the calculation of workers' wages by types of estate work-related check roll and maintenance in the field.

# CONTAIN

|                          |                                                                           | Page  |
|--------------------------|---------------------------------------------------------------------------|-------|
| <b>DECLARATION</b>       |                                                                           | II    |
| <b>ACKNOWLEDGMENT</b>    |                                                                           | III   |
| <b>EXECUTIVE SUMMARY</b> |                                                                           | IV    |
| <b>CONTAIN</b>           |                                                                           | V     |
| <b>SCHEDULE LIST</b>     |                                                                           | VI    |
| <b>FIGURE LIST</b>       |                                                                           | VII   |
| <b>CHAPTER I</b>         | <b>INTRODUCTION</b>                                                       |       |
| 1.1                      | Introduction                                                              | 1     |
| 1.2                      | Background Organization                                                   | 1     |
| 1.3                      | Vision                                                                    | 2     |
| 1.4                      | Mission                                                                   | 2     |
| 1.5                      | Corporate Value                                                           | 2     |
| 1.6                      | Organization Chart                                                        | 3     |
| 1.7                      | Planted Area                                                              | 4     |
| 1.8                      | Block Division                                                            | 5     |
| 1.9                      | Muster Ground                                                             | 6     |
| 1.10                     | Plantop System                                                            | 7     |
| <b>CHAPTER II</b>        | <b>ACTIVITY</b>                                                           |       |
| 2.1                      | Weekly Report                                                             | 8-26  |
| <b>CHAPTER III</b>       | <b>Weeding</b>                                                            |       |
| 3.1                      | There are six categories type of weed which are available in Pitas Estate | 27    |
| 3.2                      | Grasses                                                                   | 27-28 |
| 3.3                      | Broadleaf                                                                 | 29    |

|                   |                                                     |       |
|-------------------|-----------------------------------------------------|-------|
| 3.4               | Creepers                                            | 29-30 |
| 3.5               | Shrubs                                              | 30    |
| 3.6               | Ferns                                               | 31-32 |
| 3.7               | Sedges                                              | 32-33 |
| 3.8               | Controlling weed in estate                          | 33-35 |
| 3.9               | Selective Spray                                     | 35-38 |
| 3.10              | Chemical Costing                                    | 39-41 |
| <b>CHAPTER IV</b> | <b>Manuring</b>                                     |       |
| 4.1               | Introduction of Manuring                            | 42    |
| 4.2               | Type of fertilizer use in oil palm plantation.      | 42    |
| 4.3               | Application and strategy of manuring                | 42-43 |
| 4.4               | Category of fertilizer                              | 43    |
| 4.5               | Best duration to apply fertilizer                   | 44    |
| 4.6               | Method to apply fertilizer using machine            | 45-46 |
| 4.7               | Some of activity performed during manuring handling | 47-48 |
| 4.8               | Costing of manuring                                 | 49-50 |
| <b>CHAPTER V</b>  | <b>Harvesting</b>                                   |       |
| 5.1               | Introduction                                        | 51    |
| 5.2               | The important of harvesting in estate               | 51    |
| 5.3               | Cronology of oil palms                              | 51    |
| 5.4               | Harvesting Equipment                                | 52    |
| 5.5               | Harvesting intervals                                | 53    |
| 5.6               | Recomended harvesting round                         | 53    |
| 5.7               | Vechicle used in harvesting process                 | 53-54 |
| 5.8               | Manual grading of oil palm                          | 55    |
| 5.9               | Classification of bunches                           | 56-59 |
| 5.10              | Right way to cut FFB                                | 60    |
| 5.11              | Controlling on FFB                                  | 60-62 |
| <b>CHAPTER VI</b> | <b>CONCLUSION</b>                                   | 63    |
| 6.1               | Comment and suggestion                              | 64    |
| <b>REFERENCE</b>  |                                                     | 65    |
|                   |                                                     |       |
| <b>APPENDIX</b>   |                                                     |       |
| 1                 | Meeting with Pitas/Taritipan Estate staff           | 66    |
| 2                 | Demonstration new Inter-pump spray                  | 66    |
| 3                 | ARAS visiting Pitas Estate to doing                 | 67    |