FACULTY OF PLANTATION AND AGROTECHNOLOGY

DIPLOMA IN PLANTING INDUSTRY MANAGEMENT (DPIM)

UNIVERSITI TEKNOLOGI MARA SARAWAK

INDUSTRIAL TRAINING REPORT

AGRICULTURE RESEARCH CENTRE, SEMONGOK (ARC)

SECTION

FRUITS SECTION

Industrial Supervisor Name	: Miss Pearlycia Brooke
Faculty Supervisor Name	: En. Muhammad Syukrie
Student name	: Salimah Binti Mohamad Salim
Matrix Number	: 2014292686
Date of Trainer	: 05.12.2016 – 10.03.2017

Table of Content

Content	Number of Pages
1.0 Table of Content	2
2.0 Appendix List	3
3.0 Acknowledgement	4
4.0 Organizational Background	5
5.0 Organizational Chart	6
6.0 Industrial Training Activities:	
A) Main Activities	
- Pamello Honey Analysis	7
B) Other Activities	
- MD2	10
- Dabai	13
- Durian	16
- Buah Perah (Kelampai)	19
- Papaya Exotica	22
- Wax Apple	27
- Soursop	29
- Banana	31
- Sapodilla	33
- Propagation	34
- Maintenance	35
- Land Preparation	38
- Monday Meeting	39
- Program to SMK Tun Abdul Razak	40
7.0 Conclusion	41
8.0 Reference	42
9.0 Appendix	43

Acknowledgement

First and foremost, I would like to express my thankfulness to God for giving me a good health, strength and protect me while doing my practical. I would like to express my deepest appreciation to my beloved family for their blessing, motivation, understanding, love and care all the times whenever I facing difficulty during the whole process of completion my training. They have been giving me full support on financial and provide all equipment for me to finish this report.

In additional, I would like to convey my sincere gratitude to my lecturer, Mr. Muhammad Syukrie bin Haji Abu Talip because he had prepared all the things that are related to my Industrial Training at ARC. Also thanks to Dr Lily for accepting me and give me changes going here as a trainee. Next, I also want to devote my special thanks to my supervisor as the head of section, SRO Miss Pearlycia Brooke for her guidance. dedication and advice from the beginning until the completion of this internship. I've learn a lot from her about leadership. Not to forget, thanks to RO Miss Angeline Limok because helping and teaching me.

On top of that, a big appreciation also goes to staff of Fruit Section especially AAO En. Madon, En.Julin En. James and En. Mahmud for helping me and taught a lot of new information, guidance, teaching and assist a new technique that practice in correct way at the field which some of them, I cannot get it in the books.

Last but not least, my thanks also goes to all PRA in the nusery Miss Lydia, Mr. Azizul, Mr. Pawi, Mr. Masri and PRA in the field office Mr. Sadiman, Mr. Neru, Mr. Matthew, Mr. Jinian and Mr. Grade for their cooperation, team work, understanding, memorable time, and hardship we are facing together. I glade that I having them during my practical.

Lastly, I would like to say thanks to all ARC staff especially Puan Norhayatie for teaching me a new thing that out of my course, librarian of ARC and whoever that helped me direct or indirect during my internship and finished my report.

Industrial Training Activities

Main Activity: Pamello Honey Analysis

Intoduction

Pamello honey is still ongoing project. This project is carryout by SRO Lau Cheng Youn and RO Liew Chia Yun a few years ago, then being passed to SRO Pearlycia with the help from RO Angeline. Pamello honey have five (5) plot at difference places that being used for research purpose. Pamello honey is suitable to the tropical climate which is warm and wet. The annual temperature is 25° to 30° and annual rainfall more than 900 mm. The best soils for pamello honey are fertile and well-drained. The suitable soil pH is 5.0 to 6.5. Slope that is not more than <12° are recommended for pamello honey. Meanwhile, the plant density is 10m x 10m and planting holes are 60cm x 60cm x60cm. Organic matter needed is 10kg with 200g CIRP (Christmas Island Rock Phosphate). Pamello honey can be harvested 165 days after 50% of the flower fall.

Objective

- Arrange the data according to the place.
- Arrange the data according to the latest year until first year starting collected the data.
- Find the pair of Chemical Analysis and Physical Analysis results.
- Summary analysis for each place based on Chemical Analysis and Physical Analysis. (Appendix 2)
- Summary analysis for unpaired Chemical Analysis and Physical Analysis (Appendix 3)
- Summary analysis according to different treatment (fertilizer application) which is to calculate the Brix's reading from ARC and Tarat Station data. (Appendix 4)
- Summary analysis for all place Brix's reading by year. (Appendix 5)
- Activity in the field plot of pamello honey (Appendix 6)

Data

The data was including Chemical Analysis and Physical Analysis. Every experiment must have both analysis. But, on curtain experiment only have either Chemical Analysis or Physical Analysis and vice versa. Chemical Analysis have the qualification from laboratory which consist of Brix's reading, TSS, Acidity, pH value, Vitamin C, Moisture, Protein, Ash, Fibre, Fat, Carbohydrate and Juice. Meanwhile, Physical Analysis consist of Weight, Core(cm), Skin weight, Skin thickness, Flesh thickness, Flesh length, Length (cm), Diameter(cm), Skin texture and Skin colour.
The total amount of data analyzed are:

No.	Place	Chemical Analysis	Physical Analysis	Paired
1.	Kabuloh, Miri	20	16	14
2.	Tarat Station, Serian	15	14	7
3.	Sg. SaditSibu	15	10	9
4.	Sg. Ilas, Bintagor	15	13	10
5.	Argiculture Research Centre, Semengok	8	8	4

Treatment

Based on five (5) places, only two (2) places are chosen to have difference treatment. Each treatment apply difference way of fertilizing the crops in order to find out the differences. Then, analyzes being done with all the data and come out with conclusion of the best way for the farmers to practice with their crops. The treatment at Tarat Station and ARC, Semengok including 30 and 34 numbers of tree respectively. Design of project is RCBD with 4 replication.

The treatment is divide into:

No.	Treatment	Color Representative	Number of Split	Total Fertilizer/Year
1.	Control / No fertilizer	Green	-	-
2.	1kg for every 3 months	Blue	Split into 4 application	4kg
3.	2kg for every 3 months	Red	Split into 4 application	8kg
4.	1kg for every month	Yellow	Split into 12 application	12kg