



UNIVERSITI
TEKNOLOGI
MARA



FACULTY OF PLANTATION AND AGRO-TECHNOLOGY

DIPLOMA IN PLANTING INDUSTRY MANAGEMENT (DPIM)

UNIVERSITI TEKNOLOGI MARA SARAWAK

FPA 310
INDUSTRIAL TRAINING REPORT
(15 JULY - 30 AUGUST 2019)
GOLDEN AGRO PLANTATION

NAME : WALTER DANA ANAK MINGGU
STUDENT ID: 2017612218
CLASS : AT110 5B

For LECTURER use only

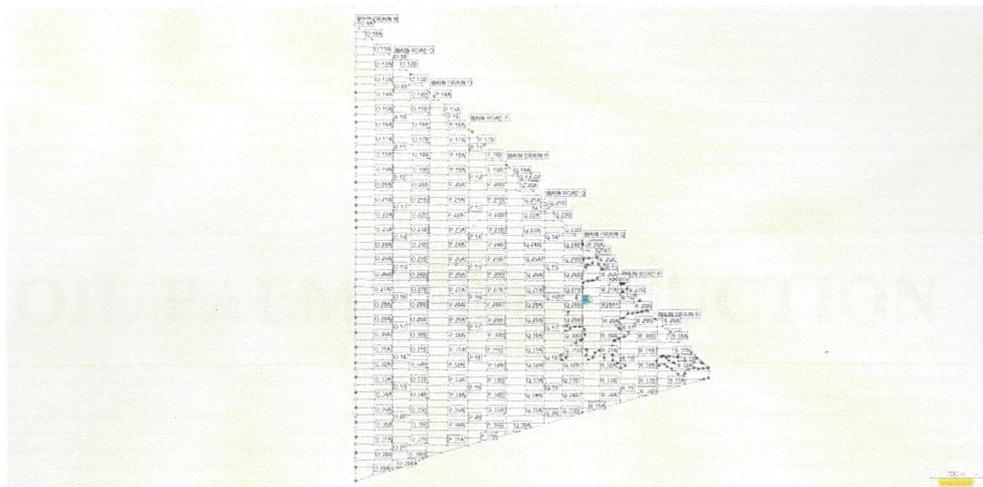
DATE RECEIVED :

STAMP :

First and foremost, a special thanks to Golden Agro Plantation SDN. BHD. for hard work and practices that have been applied to us. Also special greetings to our lecture, Sir Mohammad Syukri and Madam Saiyidah for lectures and advises to gain more knowledge and experience

INTRODUCTION

GOLDEN AGRO PLANTATION(GAP) is a company that focused on Oil Palm production. Golden Agro Plantation has two more division that is Green Ace Resources and Priority Potential and divided to 11 division.



M10 MAP



Figure 1

OIL PALM

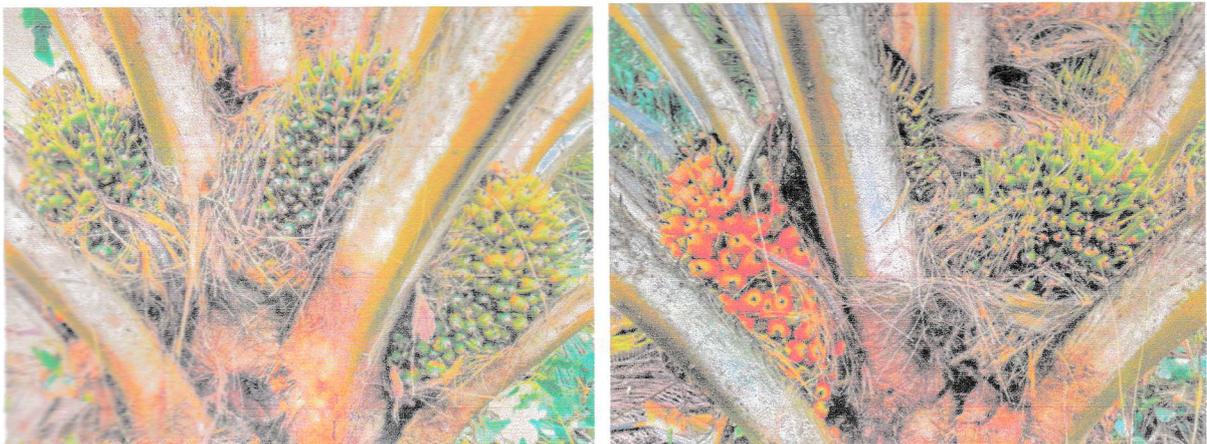
Oil Palm was originally from West Africa, the oil palm (*Elaeis guineensis*) has spread throughout the 16 or more tropics countries. However, the major centre of production Malaysia and Indonesia together accounting for around 83 % of world palm oil production in 2001. Malaysia is presently the world's leading exporter of palm oil having a 60 % market share and palm oil is second only to soybean as the major source of vegetable oil.

Oil palm (or *Elaeis guineensis*) originated from the coastal swamplands and freshwater riverines of Central and West Africa.

The Oil Palm was first introduced into the then Malaya in 1870 when it was the regarded as an ornamental plant. It was almost fifty years later that its commercial viability as an estate crop was recognized and the first commercial oil palm plantation was started at Tennamaran Estate, Batang Berjuntai in Selangor.

GAPM PALM OIL

GAPM oil palm tree age around 6-7 years that can be said as immature state . Around 15,000 hectares of field has been planted and neighbor with WTK plantation. Most of the oil palm tree are producing Tenera type of fruit and also a few of tree are hybrid species that green coloured bunch when immature and orange coloured when matured bunch.



Hybrid Species of Oil Palm

Morning Muster

One of it is done at the estate level where the workers are being briefed every morning prior to their daily routine task. In this Morning Muster, which normally starts at 6.00 a.m., the workers and the staff are constantly reminded on the importance of quality in respect of their tasks. As an example, the quality of fresh fruit bunches to be harvested must conform to the ripeness standard, the amount of fertilizer to be applied must be correct and the proper way of staking the palm fronds

In GAPM, M10 division, the workers has divided into 3 group. Each of group has been given task and work. The 3 groups are especially harvesting, manuring, pest and disease management(P & D).

Everyday, the main office of GAPM will receive information from Mill, either it is about FFB grade, OER, or FFB production per division and conclude it one the next morning to the workers.



Staff taking workers attendance

Harvesting

The harvesting of oil palm is the effortful job in cultivation of oil palm. The things that make the harvesting operation difficult are its maximum height of growing, and thorns on the trunk of the tree. The oil palm grows up to 40ft at its maximum age of 40 years. The economic yielding period is in between 25 years to 40 years. Only the skilled labour can harvest the fruit bunches at the maximum height. After harvesting process, the FFB must be transferred to mill within 24 hours.

Stacking

Stacking is where the dead frond is stacked or organized properly aside from loading path. This is to make the loading process more easier. By stacking the fronds in a box shape, the nutrients and the organic matter are spread out, and the leaves decompose faster because the stacks are not too high. Stacking leaves also keeps them out of the harvester's way, and helps to prevent soil erosion.

Loading

GAPM harvesting intervals are between 10 -12 days . For loading system, GAP using beam system and transfer it to GAP Mill within 24 hours. This is to prevent the loss of Oil Extraction Rate(OER) drop due to not loaded within 24 hours. Normal Peat soil OER are 20% - 18% and GAP average OER are 19%.

In the block, they using wheelbarrow to load the fresh fruit bunch(FFB) to the platform. The reason why they has to load it to loading platform is for grading purposes. After that, the FBB will be loaded to the beam using tractor and some of the collection road are in bad condition that they has to use Superbull tractor. The staff incharge on Harvesting is Mr.Asri and has two mandors under him