





FACULTY OF PLANTATION AND AGRO-TECHNOLOGY DIPLOMA IN PLANTING INDUSTRY MANAGEMENT (DPIM) UNIVERSITI TEKNOLOGI MARA SARAWAK

FINAL REPORT OF INDUSTRIAL TRAINING SOLID PALM OIL MILL BHD FPA 310

15 JULY 2019 - 30 AUGUST 2019

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Solid Palm Oil Mill Bhd is located at 101km, Jalan MIri-Bintulu, Goastal Road Miri, 98000 Sarawak. It also has an estate plantation at Bario. This company had started to operates in oil palm plantation industry with incorporated on 17 of February 2009. The company indicates a net sales revenue of 13.15% that increased during on thier latest financial report. However, their tota asset has decreased by 7.65 % at the same period and the net profit margin of the company had increaseed by 0.92% in 2017.



Solid Palm Oil Mill BHD office

NURSERY

I had my visit at Asam Bumi SDN BHD during my industrial practical after getting permission from my supervisor. Asam Bumi SDN BHD is located at Lot 656, Block 31, Kemena Land District, 97008 Bintulu Sarawak. My supervisor for the nursery was Encik Malvin Ugap and Encik Joshua Jembut. They conducted oil palm nursery that use single stage nursery. Their nursery area is about 6 hectare. They have pre-nursery area and main nursery area too. They have sufficient water sources from nearby stream. It is very important to have sufficient source of water supply to ensure good quality of oil palm seedling.

There are many procedure to conduct a successful nursery that produce high quality of seedling. To start a nursery, we need to send registration form of the nursery to Department of Agriculture (DOE) to get approval and legal license to operate the nursery. The procedure to conduct nursery are ordering and handling germinated oil palm seed, nursery site, watering system, pre-nursery and main nursery.

ORDERING AND HANDLING GERMINATED OIL PALM SEEDLING





The picture above is the company legal permit to open nursery business that can order germinated oil palm The picture above is the permit to order germinated oil palm seed. It is advisable to order the germinated seeds 1-2 years earlier.

NURSERY SITE PLANING

CRITERIA FOR SITE SELECTION

To choose a good site selection it is important to have better supervision, security, maintenance and to minimize the cost of nursery establishment. It will ease the worker to plant the germinated oil palm seed from any unwanted problem to happen. The company will have minimum issues that they need to find the solution.

The criteria that need to have for a good nursery site:

- 1. Proximity to have good and unpolluted water source such as rivers, streams
- 2. Free from flash flood
- 3. Flat or slightly undulating areas with good soils in the vicinity.
- 4. If possible, the nursery should be near to the proposed replanting areas to reduce transportation cost.
- 5. The area should be well drained.
- 6. Free from major pests such as wild boar, porcupines, elephant and many more.

LAND PREPARATION FOR NURSERY

SITE CLEARING

The selected site should be cleared and leveled at least 2 months before the arrival of the seeds. This method is used to allow the aeration of the soil and to regulate the nutrient inside the soil. The woody growth and noxious weeds should be fully eradicated so that the nursery is free from weeds. This practice help the company with minimizing the future usage of herbicides and wastage of budget in maintaining the nursery area.

ROAD AND DRAINAGE SYSTEM

A good nursery layout should have systematic drainage, road and irrigation systems. Proper planning is important to nursery establishment that will prevent any inconveniences after planting. When on rainy season, the drains should be dug out to throw away the unwanted plant or washed soil that flushed away and discharge the excess water to avoid flash flood to happen. The excess water should be channeled back to the waterways and lastly to the catchment pond.

The road layout should be in line with the polybag arrangement and drainage pattern. It is advisable to have straight roads that enable systematic arrangement of nursery of the seedling and to accommodate the proposed drainage system. The road system should be accessible in all type of weather condition that common in the area such as rainy day and sunny day. It is to facilitate the supervision, transportation of materials and eventual dispatch of the seedlings to the field.

Last but not least, it is advisable to have conservative terraces for rolling or undulating areas. It helps to reduce the surface runoff of water and erosion. Water runoff will cause seedling become unstable and toppled by strong wind. It also help to ease the worker work to do supervision and do maintenance activity.