



UNIVERSITI TEKNOLOGI MARA  
AGR 390

REPORT ON INDUSTRIAL TRAINING AT JABATAN  
PERTANIAN PENYELIDIKAN TUARAN  
SABAH

MOHD HASIF SYUAIB BIN AB GHAFAR  
2010 - 69 - 1288

DIPLOMA IN PLANTING INDUSTRIAL AND MANAGEMENT  
FACULTY OF PLANTATION AND AGROTECHNOLOGY

DEC 2012

## RECOGNITION

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## DECLARATION

In the name of Allah, Most Gracious more care. Peace and blessings be upon the Prophet Muhammad. Alahamdullillah, thanks to Allah swt with his consent and blessing this writing project succesfully completed.

I take this opportunity to express our sincere appreciation and thanks very much for all players who give encouragement and support to me. Specifically our lecturer Sir hamzah rusli who provide guidance and direction in the realization of this industrial training report and providing me a place for my industry training.

Thanks to our supervisor or pathology research officer Mr Haji Roslan Haji Alidin who teach me a lot during this practical. So do Madam Hajah Asiah Haji Alidin who always give me guidance and support and all the worker on Agricultural research department tuaran sabah.

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

| SUBJECT   | TIME                    | DATE              |
|---|-------------------------|-------------------|
| <p>ARC Tuaran were placed at tuaran about 35 km from Kota kinabalu and was open legally since the year of 1963. This department was known as the biggest Agriculture research department in sabah with the size of 56 ha.</p>   |                         |                   |
| <p>ARC Tuaran is service oriented and research in which research projects are carried out to improve agricultural practices in Sabah as well as providing advisory services to the farmers. in addition, for research in the highlands, two sub-stations have been set up since 1957 Kundasang Ranau and scenic Mesilau in Kundasang in 1984. both sub-station is under the administration of the ARC Tuaran to support local crop research program that has economic potential for import substitution.</p>  |                         |                   |
| <p>Visiting pathology areas house rice where Tungro virus produced by force with RA Zuhar Khan.</p>   | <p>08 Dec- 1.2.18pm</p> | <p>6/12/2012</p>  |
| <p>Objective of ARC Tuaran:</p>   |                         |                   |
| <ul style="list-style-type: none"> <li>• To carry out research activities for the purpose of increasing the effectiveness of food crop production, where priority is given to plant rice and vegetables on a sustainable basis under local environmental conditions.</li> <li>• To perform the study focused on the management and sustainable pest control in major crops cultivated in the state of Sabah.</li> <li>• To undertake a study of the economic potential of the use and processing of agricultural crops and residues.</li> <li>• To carry out investigations of the suitability and production potential of land in Sabah state for agricultural development.</li> <li>• To provide required laboratory analysis and technical support for the complete functions of the department of agriculture in the development of the agricultural sector in the state of Sabah.</li> </ul> |                         |                   |
| <p>Preparing two type of agar with RA Hajah Asrah Haji Ahdin<br/>*potato dextrose agar<br/>*corn meal agar</p>  | <p>7.30am-4.30pm</p>    | <p>12/12/2012</p> |

## ACTIVITIES

### Week 1

Day 3

Plant Pathology

05/12/2012.

7:30am-04:30pm.

Pathology is a unit which provided by Agriculture research centre since 1963. Pathology responsible in researching plant and prepare advice to farmer. Pathology run a research about plant disease that caused by fungus, nematode, bacteria, and virus.

The purpose of pathology is:

- Collecting data, analyzing data, researching and providing new technology in controlling plant disease.
- Providing advices and management strategy on identifying plant disease and the source of the disease and teaching strategy of effective controlling.
- Keeping, care and develop cultured plant disease, herbarium for references.

Reading a pathology book: paddy disease

Bacterial leaf blight ( BLB ) caused by Bacteria *Xanthomonas compestris* pv. *Oryzae*. This type of disease can cause serious damage on paddy plant which can lead to 10% of yield loss. This disease can spread through seeds, soil, water, and tools.

The symptom of this disease can be seen through the plant by looking at the plant:

- The damage starts from the tips of the leaf.
- Color change to white.
- Serious damage the paddy wilt and die.

Way to control by:

- Planting a plant with high percentage of disease resistance.
- Use free disease seeds.
- Avoid using a lot of nitrogen.
- Destroy infected plant.
- Clean tools before weeding.