

**MAJOR PRACTICE IN CYTOPLASMIC MALE STERILITY (CMS)  
SEED MULTIPLICATION**

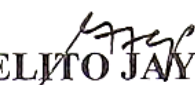
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Submitted to the faculty of the Department of Crop Science  
College of Agriculture, Central Luzon State University  
in partial fulfilment of the requirements  
for the degree


**BACHELOR OF SCIENCE IN AGRICULTURE  
(Crop Science - Agronomy)**

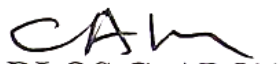
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This major practice report entitled “**MAJOR PRACTICE IN CYTOPLASMIC MALE STERILITY (CMS) SEED MULTIPLICATION**”, prepared and submitted by **ARIEL DC DE GUZMAN** in partial fulfillment of the requirements for the degree of Bachelor of Science in Agriculture (Crop Science) is hereby accepted.

  
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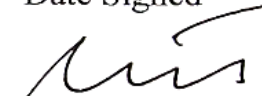
  
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## **BIOGRAPICAL SKETCH**

The author, De Guzman, Ariel Dela Cruz was born on February 12, 1996 at Brgy Esguerra, Talavera, Nueva Ecija. He is the youngest child of Mr. Eulogio A. De Guzman and Mrs. Analiza Dc. De Guzman. He have one sister who was named Analou Dc. De Guzman.

He completed his primary education at Talavera, Central School at Talavera Nueva Ecija in 2008. He finished his secondary education at Sto. Domingo National Trade School, Baloc Nueva Ecija in 2012. After secondary education, he continued his tertiary education at Central Luzon State University, Science City of Munoz, Nueva Ecija, with the degree Bachelor of Science in Agriculture, major in Crop Science.

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## ABSTRACT

**DE GUZMAN, ARIEL DELA CRUZ**, Department of Crop Science, College of Agriculture, Central Luzon State University, Science City of Muñoz, Nueva Ecija, January 2018.

### **Major Practice in Cytoplasmic Male Sterility (CMS) line Seed Multiplication IR85025A**

**Venue:** Philippine-Sino Center for Agricultural Technology (PhilSCAT)  
Central Luzon State University  
Science City of Munoz, Nueva Ecija

**Adviser:** **Efrelito Jay M. Guitap**

The major practice was conducted during the dry season of 2017 at PhilSCAT from January to July 2017. The objective of the major practice was to acquire hands-on training in the actual seed production of hybrid rice seed parent to produce 1000kg/ha of IR85025A.

During the major practice, the student underwent hands-on training in the different cultural practices, such as cleaning the field, seedbed preparation, soaking and sowing of seeds, land preparation, transplanting and replanting of seedling, fertilizer application, roguing, GA<sub>3</sub> application, supplementary pollination, harvesting, threshing, drying, cleaning, packaging and storing.

The total yield from the area of 10,000 m<sup>2</sup> was 120 kg of IR85025A. The actual price of the produce was PhP 750.00 per kg for the A-line and PhP 20.00 per kg for the 1050 kg of B-line. The A-line was used for F1 seed production of Mestiso 28.

A net income of PhP 34,805.00 from a gross income of PhP111,000.00 with a production cost of PhP 76,195 The return on investment was 1.56%

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