MAJOR PRACTICE IN CYTOPLASMIC MALE STERILITY (CMS) SEED MULTIPLICATION OF IR58025A AT PHIL-SINO CENTER FOR AGRICULTURAL TECHNOLOGY (PhilSCAT)

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An undergraduate major practice manuscript presented to the faculty of the
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for the degree

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This major practice report entitled "**CYTOPLASMIC MALE STERILITY (CMS) SEED MULTIPLICATION OF IR58025A AT PHILSCAT"** prepared and submitted by **JULIA NICA SALVE M. CARPIO** in partial fulfillment of the requirements for the degree Bachelor of Science in Agriculture (Crop Science), is hereby accepted.

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BIOGRAPHICAL SKETCH

Julia Nica Salve M. Carpio was born on 20th day of July year 1997 at Cabanatuan Nueva Ecija. She is the youngest child among the four children of Mr. Amrocio B. Carpio and Mrs. Salvacion M. Carpio. Sha has two sisters and one brother namely; Abbie, Sheena, and Christian.

She finished her elementary education at Calipahan Elemetary School at Barangay Calipahan Talavera, Nueva Ecija in 2009 and her seconday education at Sto. Domingo National Trade School at Sto. Domingo, Nueva Ecija in 2013.

She pursued her college degree at Central Luzon State University (CLSU), Science City of Munoz, Nueva Ecija. She grew up in the community were the main occupation of the people is farming, thus sparked her interest in plants. As such she took up Bachelor of Science in Agriculture major in Crop Science with Agronomy as her field of specialization.

The author found college life is very different, lots of hardship, full of struggles, needing determination and lots of patience. As a requirement for graduation, she conducted her major practice entitled Major Practice in Cytoplasmic Male Sterility (CMS) Seed Multiplication of IR58025A at Phil-Sino Center For Agricultural Technology (PhilSCAT), Central Luzon State University, Science City of Muñoz, Nueva Ecija.

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JULIA NICA SALVE M. CARPIO

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ABSTRACT

CARPIO, JULIA NICA SALVE M. Department of Crop Science, College of Agriculture, Central Luzon State University, Science City of Muñoz, Nueva Ecija, February 2017.

Major Practice in Cytoplasmic Male Sterility (CMS) Seed Multiplication of IR58025A At PhilSCAT

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

Adviser: **Mr. Efrelito Jay M. Guittap**

The major practice was conducted from month of February 2017 to June 2017 at Phil-Sino Center for Agricultural Technology (PhilSCAT), Central Luzon State University, Science City of Muñoz, Nueva Ecija.

The objectives of the major practice were to enhance the knowledge of the student and develop skills in the production of hybrid rice seed production; and to produce a 500 $kgha^{-1}$ of hybrid seeds in (1) hectare.

The major practice student underwent a hands-on training in the different activities like growing seedling in the seedbed, transplanting, pest and nutrient management, preparation and application of GA_3, supplementary pollination, rouging and post-harvest like harvesting, seed drying and cleaning.

The (CMS) seed production project with an area of 10,000 m^2 produced a gross income of Php 90,000 from A-line, which gave a yield of 120 kilograms which was sold at Php P750 per kg. And also produce gross income of Php 21, 000 from B-line, which give a yield of 1,050 kilograms which was sold at Php 20 per kg

The total cost of production was Php 187,000. The net income was Php 34,805 and Return on Investment (ROI) was 0.46.

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