MAJOR PRACTICE AT LEONIE'S AGRI CORPORATION (LAC) FARM WITH EMPHASIS ON ARUGULA (*Eruca sativa* Mill.) PRODUCTION[1/]

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Submitted to the faculty of the Department of Crop Science,
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for the degree

BACHELOR OF SCIENCE IN AGRICULTURE
(Crop Science-Horticulture)

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This Major practice entitled **"MAJOR PRACTICE AT LEONIE'S AGRI CORPORATION (LAC) FARM WITH EMPHASIS ON ARUGULA (*Eruca sativa* Mill.) PRODUCTION"**, prepared and submitted by **ROSE ANN U. LAPURGA**, in partial fulfilment of the requirements for the degree **Bachelor of Science in Agriculture (Crop Science- Horticulture)** is hereby accepted.

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BIOLOGICAL SKETCH

Rose Ann U. Lapurga was born on October 05, 1995 in Sitio Tanibong, Brgy. Abar 1st, San Jose City, Nueva Ecija.

Her parents named Mr. Joselito S. Lapurga Sr. and Mrs. Rosalinda Ubungin-Lapurga decided to enroll her at Abar 1st Elementary School in Abar 1st, San Jose City, Nueva Ecija wherein she pursued her elementary education from year 2002 to 2008. Her secondary education was completed at San Jose City National High School formerly Constancio Padilla National High School in Cadhit Street, Caloocan, San Jose City, Nueva Ecija from 2008 to 2012.

One year after the completion of her secondary education she decided to pursue her higher education at Central Luzon State University in Science City of Muñoz, Nueva Ecija. She is taking Bachelor of Science in Agriculture major in Crop Science specialized in Horticulture because of her love and interest in growing ornamental plants and garden designing.

Luckily, her family don't want to pressure her but instead they want to give all the support that she need. This is her inspiration and motivation to study hard. Her family's unconditional love and endless support keep on pushing her to achieve her goals and dreams in life for herself and of course for her family that's why she wanted to finish her study on time.

After graduation, she plans to take and hopefully passed the Agriculturist Licensure Examination and she also plans to work abroad and to travel around the world with her family especially her mother.

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ROSE ANN UBUNGIN LAPURGA

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ABSTRACT

LAPURGA, ROSE ANN UBUNGIN, Department of Crop Science, College of Agriculture, Central Luzon State University, Science City of Muñoz, Nueva Ecija. May 2017

Major Practice at Leonie's Agri Corporation (LAC) Farm with Emphasis on Arugula (*Eruca sativa* Mill.) Production

Venue: **Leonie's Agri Corporation (LAC) Farm,**
Sta. Rosa, Nueva Ecija.

Adviser: **Pacifico T. Vizmonte, Jr.**

This major practice at Leonie's Agri Corporation farm with emphasis on arugula (*Eruca sativa* Mill.) production was conducted from June 27, 2016 to August 05, 2016 in Brgy. Liwayway, Sta. Rosa, Nueva Ecija.

The general objective of the major practice was to gain more knowledge and hands on experience to develop skills in organic farming at Leonie's Agri Corporation (LAC) Farm. The specific objectives were: to enhance both experiential and technical knowledge in organic crop production of arugula; to become familiar with the growth and development of the arugula plant; and to determine the cost and return analysis of arugula production.

Arugula contains glucosides such as allyl sulphonocyanate while the seed oil contains erucic acid (Nuez and Hernandez, 1994). In various Mediterranean countries, it

is cultivated as a salad green or cooked vegetable and is also grown in Asia as an oilseed crop. Arugula is also known as rocket, roquette, rucola or rughetta. It is mainly used to garnish and flavour salads and a large variety of meals. Because of its glucosinolates content, arugula is a new potential health promoting vegetable (D'Antuono et al., 2009). The interest in arugula has been increasing in recent years because of the spicy taste of its leaves.

During the major practice, the student was exposed to all the actual activities which involved in the production of arugula such as land preparation, seed sowing, pricking, replanting, organic fertilization, irrigation, weeding, controlling of pests and diseases, harvesting, sorting, washing and packaging.

The major practice student was also introduced to some aspect of organic agriculture technology like vermicomposting and IMO.

The gross sale from 287 m^2 of arugula production was about Php 24,000.00. After deducting the total cost of production which amounted to Php 12,650.00 from the total gross sales, a net income obtained from the production was Php 11,350.00 with a return on investment (ROI) of 89.72%.

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