

**FIELD PRACTICE REPORT ON TISSUE CULTURE OF RED SEAWEED
“GULAMAN” (*Gracilaria firma*) IN BFAR-NATIONAL
SEAWEED TECHNOLOGY DEVELOPMENT
CENTER (NSTDC), CABID-AN,
SORSOGON CITY**

by

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COLLEGE OF FISHERIES
CENTRAL LUZON STATE UNIVERSITY
Science City of Muñoz, Nueva Ecija
Philippines**

2018

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SAMUEL ESPINOL HERMOGINO

**Undergraduate Field Practice Report presented to the faculty
of College of Fisheries, Central Luzon State University
in partial fulfilment of requirements for the degree**

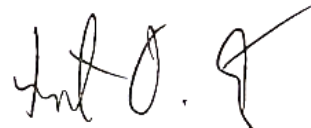
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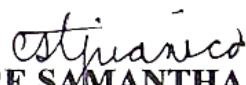
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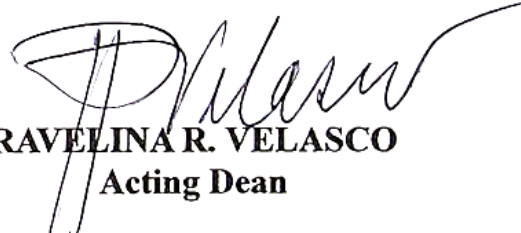

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2018

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ACKNOWLEDGEMENT

“Being confident of this, that He who began a good work in you will carry it unto completion until the day of Christ Jesus” (Philippians 1:6). The author has this kind of confidence in his heart that the Lord would allow him to complete everything that has started. The author is so grateful to give the honor to the Almighty God who sustains him with strength, knowledge and wisdom to accomplish all the works during the field practice and even in the writing of this manuscript. He acknowledges that apart from God he can do nothing.

The author would like to extend his sincerest gratitude to the persons who help and support him in doing his field practice and writing this manuscript

The author appreciates the kindness, hospitality and even the joy of imparting knowledge of all the NSTDC Staff to their OJT’s. The author gives highly regards for Sir Elmer, Sir Angelo, Sir Jonas, Sir PJ, Sir Ian, Sir Alex, Sir Caesar, Sir Sony, Sir Rey, Sir Emman, Sir Joseph, Ma’am Arian, ma’am Florence and also to Ma’am Ida for giving their best as they can to share all the knowledge they have about seaweeds and applications either in actual demo or lecture.

The author also acknowledges the support and companionship of his Co-OJT’s; Emily Balanag, Melissa Valentino, Maurene Incad, Vanessa Laureta and Lovely Joy Samonte. He appreciates the help and encouragement of his friend Jhunell Regala who is working at the nearby agency. He gave a special thanks to his brothers and sisters Eden Hermogino, Eva Hermogino, Leo Hermogino, Efraim Hermogino and to his parents Luisa Hermogino and Leonardo Hermogino for all their support in financial, moral and spiritual aspect.

The author also gives thanks to Ms. Claire Samantha T. Juanico his adviser and OJT coordinator who gave time just to come along with the center and formally introduce the students to the NSTDC staff. And also to Ms. Rea Mae C. Templonuevo his critic who faithfully check this manuscript to become more excellent and comprehensive.

The author also acknowledges the persons that are not mentioned above but helps and encourage him to accomplish the field practice. To God be the glory.

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EXECUTIVE SUMMARY

The field practice was conducted at the BFAR-NSTDC (National Seaweed Technology Development Center located in Cabid-an, Sorsogon City, from June 23, 2017 to August 3, 2017, a total of 30 working days of training. The aim of the center is to develop and promote the seaweed industry and to disseminate their technologies to fisher folks.

Generally, the activities done by the author involve the seaweed culture in the laboratory, farming of *G. hetroclada*, extraction of agar phycocoloid from the *G. hetroclada* and application of seaweed to different food products. Specifically, the author experienced the tissue culture of *G. firma*, branch culture of *E. denticulatum*, *K. Alvarezii* and *G. heteroclada*, agar extraction from *G. heteroclada* using native and ATCC method, farming of *G. heteroclada* in the Sorsogon Bay, morphological identification of seaweeds and producing newly developed products out of seaweeds such as gulaman letche flan, seaweed brownies, seaweed cookies, seaweed macaroons, seaweed choco-crinkles and seaweed steamed-puto.

Strengths of the center include adequate facilities, adequate budget for research and projects and the geographical location of the province where the center is located. Its weaknesses comprise “Dole-out” projects, transportation difficulty and not well utilized equipment and facilities.

^{1/}Undergraduate Field Practice Report presented in partial fulfilment of the requirements for graduation with the degree of Bachelor of Science in Fisheries. Prepared at the Department of Aquatic Post Harvest, College of Fisheries, Central Luzon State University, under the supervision of Ms. Claire Samantha T. Juanico.

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