FIELD PRACTICE REPORT ON THE METHODS ON THE TISSUE CULTURE OF RED SEAWEEDS (*Kappaphycus alvarezii*) IN SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER

By

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FIELD PRACTICE REPORT ON THE METHODS FOR HATCHERY OF RED SEAWEEDS (*Kappaphycus alvarezii*) IN SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER

By

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Of

BACHELOR OF SCIENCE IN FISHERIES

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FIELD PRACTICE REPORT ON THE METHODS ON THE TISSUE CULTURE OF RED SEAWEEDS (*Kappaphycus alvarezii*) IN SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER[1/]

EXECUTIVE SUMMARY

The field practice wass conducted at South East Asian Fisheries Development AQD Center in Brgy. Buyu-an, Tigbauan, Iloilo from June 24 to July 26 2016. The aim of the seaweed hatchery is to produce high quality of seaweed seeds for farmers and to meet the demand for seaweeds that is not vulnerable to different diseases and climate change.

The activities involved are collection of samples, cutting of samples, stocking the samples, application of fertilizer, cleaning of stocked samples, counting, measuring and weighing of samples and sporulation.It also involved other activities such as water quality monitoring, stocking of *Gracilaria sp.* in experimental tanks and cleaning of tanks and aquaria.

The strengths of the hatchery are strategic location, technology, knowledgeable staff and administrative support. Its weaknesses are no nearby or permanent source of seaweeds and diseases.

REFERENCES

Bixler, H.J. and H. Porse. 2011. A decade of change in the seaweed hydrocolloids industry. Journal of Applied Phycology 23:321-335

Hurtado, A.Q. 2013. Social and economic dimension of carrageenan seaweed farming in the Philippines. Fisheries and Aquaculture Technical paper No. 580. Rome, FAO 204 pp.

Luhan M.R.J. Avancena S.S. Mateo J.P. 2014Effect of short-term immersion of *Kappaphycus alvarezii*(Doty) Doty in high nitrogen on the growth, nitrogen assimilation, carrageenan quality, and occurrence of "ice-ice" disease. Journal of Applied Phycology. DOI 10.1007/s10811-014-0365-8

Trono, G.C. Jr. 1999. Diversity of the seaweed flora of the Philippines and its utilization. Hydrobiologia 398/399: 1-6

Valderrama, D. 2012. Social dimensions of seaweed farming: a global review. IIFET Tanzania Proceedings.

-http://www.seafdec.org.ph/our-organization/stations-facilities/tigbauan-main station/#sthash.Zxn45v9M.dpuf

www.seafdec.org.ph/

https://en.wikipedia.org/wiki/Kappaphycus_alvarezii