

## **ABSTRACT**

### **USING OF COCONUT WATER FOR TEAK (*Tectona grandis*) STEM CUTTINGS**

**by**

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Teak plant was a tree which timber has durability class I and strong class I. It has many benefits, from roots to leaves. Various benefits of teak causing to do cultivation, one of propagation activities that often carried out was vegetative. Vegetative propagation of plants can be done by stem cutting, root cutting and shoot cutting. Using of growth regulator with coconut water immersion is expected to spur the growth root of teak stem cutting. This study aimed to determine the effect of using coconut water to increase the success of teak stem cutting growth, and to determine the best dose of using coconut water for teak stem cutting growth. This treatment used Completely Randomized Design (CRD). This research consisted of five treatments that used coconut water treatment 0%, 25%, 50%, 75%, and 100%. Each treatment consisted of five teak stem cuttings with repetition as much as 5 times. Amount of material plants required  $5 \times 5 \times 5 = 125$  teak stem cuttings.

The result showed by using coconut water as a growth regulator could increase the growth of teak (*Tectona grandis*) stem cutting in 50%--100% concentration and the best dose of coconut water as a growth regulator was 100%.

Keywords : coconut water, cutting, dose, growth regulator, teak