

THE EFFECT OF NATURAL PGR AND LEAF FERTILIZER ON VEGETATIVE GROWTH OF HYBRID VANDA ORCHIDS

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ABSTRACT

Hybrid vanda orchid plants have high economic value and have great potential. The problem in the vegetative phase of the Vanda orchid plant is slow and non-uniform growth. The growth of hybrid vanda orchids can be increased with PGR and appropriate foliar fertilizer to support their growth. The research aims to examine the interaction and determine the most appropriate type of natural PGR and foliar fertilizer for the growth of hybrid vanda orchid plants. The research method is an experiment under paranet using a Split Plot Design using 2 factors, namely natural PGR and foliar fertilizer. Natural ZPT main plot with three levels: shallots, bean sprouts, coconut water and foliar fertilizer sub plot with three levels: gandasil fertilizer, growquick LB, namira. Data were analyzed for diversity using analysis of variance (ANOVA). Tested with DMRT at 5% level. The research results showed that in the application of natural ZPT and foliar fertilizer there was an interaction between shallot ZPT and growquick LB fertilizer on the parameters of plant height and leaf length at 12 WAP. The application of natural ZPT on shallots gave the best results at plant height at 8 WAP, number of leaves at 8 and 12 WAP, leaf length at 4 and 8 WAP, number of roots at 12 WAP and root length at 12 WAP. Growquick LB foliar fertilizer gave the best results at the parameters of plant height at 8 WAP, leaf length at 4 and 8 WAP and number of roots at 12 WAP.

Keywords: vanda, hybrid, natural PGR, foliar fertilizer.