

**APLIKASI PUPUK ORGANIK PLUS ARANG DAN PUPUK ORGANIK  
MIKORIZA PLUS ARANG PADA MEDIA TUMBUH ANAKAN  
*Shorea crysophylla*  
(Application of Charcoal-Incorporated Organic Fertilizer and Charcoal-Incorporated  
Mycorrhiza Organic Fertilizer on the Growth Media for *Shorea crysophylla* Seedlings)**

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ABSTRACT

This paper present research regarding the application of charcoal-incorporated organic fertilizer (CIOF) and charcoal-incorporated organic fertilizer (CIMOF) to the growth media for *Shorea crysophylla* seedlings, which lasted separately but concurrently for 6 month in the greenhouse. This research aimed to look into the effect of CIOF and CIMOF employments on the growth responses i.e. weight and diameter of those seedlings.

Results revealed that the use of one tablet of CIMOF brought about significant effect on the height and diameter growths of *Shorea crysophylla* seedlings, in that there was an increase as much 43.9% the height and 49.3% the diameter as those of the control (without CIMOF). Meanwhile, the use of CIOF seemed less effective to inflict such increase than that of CIMOF. The increase was only 33.65% and 40.06% for height and diameter, respectively. It can be inferred that to enhance the growth of *Shorea crysophylla* seedlings, it was sufficient by just employing one tablet of CIMOF rather than the use of CIOF. Further, the use of CIMOF tablet proved more effective increasing the seedling height and diameter.

Keywords : Organic fertilizer, mycorrhiza, charcoal, application, seedlings.

ABSTRAK

Tulisan ini menyajikan hasil penelitian penggunaan pupuk organik plus arang (POA) dan pupuk organik mikoriza plus arang (POAM) pada media tumbuh anakan *Shorea crysophylla* selama 6 bulan di rumah kaca. Tujuan penelitian adalah untuk mengetahui pengaruh penambahan POA dan POAM terhadap respon pertumbuhan anakan *Shorea crysophylla*. Hasil penelitian menunjukkan bahwa penambahan 1 tablet pupuk organik

mikoriza plus arang (POAM) memberikan perbedaan nyata pada pertumbuhan tinggi dan diameter anakan *Shorea crysophylla* dan juga dapat meningkatkan pertumbuhan tinggi sebesar 43,9% dan diameter sebesar 49,3% dibandingkan tanpa POAM. Penambahan pupuk organik plus arang (POA) kurang efektif terhadap peningkatan pertumbuhan tinggi dan diameter anakan *Shorea crysophylla*, dibandingkan POAM. Untuk meningkatkan pertumbuhan anakan *Shorea crysophylla*, cukup diberi 1 tablet POAM tanpa harus ditambah POA. Tablet POAM sangat berpengaruh terhadap peningkatan pertumbuhan diameter daripada pertumbuhan tinggi.

Kata kunci : Pupuk organik, mikoriza, anakan, arang, aplikasi