

# THE APPLICATION OF *DREGS* AND *TRICHODERMA* SP TO THE ABSORPTION OF N, P, K, OIL PALM SEED AT THE PEAT MEDIUM IN MAJOR SEEDLING

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## ABSTRACT

Oil Palm (*Elaeis guineensis* Jacq) is a plantation crop which playing an important part for Indonesia, as a reliable commodity to export and also for the commodity which expected can raise the farmer earnings. Oil palm has an important meaning to increase the state's stock exchange and also can create a work opportunity for the society. This can be seen from the oil palm plantation area width which progressively increases especially in Riau Province, as noted from 2001. This research is executed experimentally using the factorial group random device (GRD) which consists of 2 factors. The first factor is a *Trichoderma* SP dose and the second factor is *Dregs* dose, in each treatment factor there's 4 levels so obtained 16 treatments combination with 3 repetitions, so obtained 48 attempt units. Each attempt unit consists with 2 plants so the amounts of all plant seeds are 96 poly bags. The parameter which observed are the C/N analysis after the incubation of *Trichoderma* SP, the pH analysis, the absorption of N, P, and K at the plant net, the accretion of seed height (cm), the accretion of bar hump diameter (cm), the accretion of leaves stem amount (sheet), the plant dry weight, and the root protrude ratio. The data which obtained is analyzed using the Various Examination and then is continued with DNMRT test at the level of 5%. According to the research result is obtained that the giving of *Dregs* is significantly influence to the ground pH and the plant dry weight but *Dregs* were not able to improve the plant growth. *Dregs* is also effecting to the availability of N, P, and K element both in the medium and the absorption of N, P, and K to the plant. The best giving of *Dregs* is on 10 g/kg peat doses. The giving of *Trichoderma* SP is effecting to the parameter of the plant height accretion and the bar hump diameter accretion. The best giving of *Trichoderma* SP is on 25 g/kg peat doses.

Keywords: *Dregs*, *Trichoderma* SP, N, P, K, Oil Palm seed on peat.