

**INFLUENCE OF FROM RICE WASH WATER WASTE ON THE GROWTH
OF PALM PALM SEEDLINGS (*Elaeis guineensis* Jacq.)
VARIETY DxP 540 IN PRE NURSERY**

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ABSTRACT

The factor that influences oil palm productivity is the use of quality seeds. Including the right type of fertilizer, time, dose and method, determines the success of oil palm cultivation. The use of liquid organic fertilizer, one of which is rice washing waste water, can improve the chemical, physical and biological properties of the soil and provide the nutrients needed by plants. The aim of the research was to determine the effect of providing from rice washing waste water on the growth of oil palm seedlings in the pre-nursery. The research was carried out from September to December 2024 at the Jember State Polytechnic research area. The experimental design used in this research was RAK (Randomized Block Design) Non-Factory using 1 factor, the first factor was the provision of liquid organic fertilizer from rice washing water waste (N) with the administration of (N0) without treatment, (N1) (50 ml waste rice washing water + 950 ml water), (N2) (100 ml waste rice washing water + 900 ml water), (N3) (150 ml waste washing water rice + 850 ml water), (N4) (200 ml rice washing waste water + 800 ml water), (N5) (250 ml rice washing waste water + 750 ml water). So there are 6 levels of treatment, each treatment consists of replications. Each experimental unit consists of 3 seeds. Observation parameters in the study included the percentage of seed height, seed diameter, number of leaves, fresh weight of seedlings and dry weight of seedlings. The results of the treatment research concluded that the effect of giving rice washing water waste on the growth of oil palm seedlings had a significant effect on the growth of seedling height at the age of 6 WAP, 8 WAP and 12 WAP and had no significant effect on the number of plant leaves, seed diameter, wet weight, weight. dry.

Key words: *oil palm, liquid organic fertilizer, pre nursery, rice washing waste water*