

**Pengaruh *Humic Acid Super Phosphate* (HSP) dan SP-36 Terhadap Produksi dan Mutu Benih Dasar Padi (*Oryza sativa L.*) Varietas IR 64** *Effect of Humic Acid Super Phosphate (HSP) and SP-36 on Production and Quality of Foundation Seed Rice (*Oryza sativa L.*) Variety IR 64. Supervised by : Ir. M. Bintoro, MP., and Alvian Tono Arif, S.ST.*

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### ***ABSTRACT***

Rice as a staple food is still difficult to replace with other sources of carbohydrates. The problem formulation of this study was to find out how the effect of HSP and SP-36 on the production and quality of the basic seed of rice variety IR 64. This study aimed to determine the effect of HSP and SP-36 on the production and quality of the basic seed of rice variety IR 64. This study used Factorial Randomized Block Design. The first factor was the provision of HSP (A) with 3 treatment levels and the second factor was the provision of SP-36 (P) fertilizer with 3 treatment levels. Each treatment was repeated 3 times, so there were 27 experimental units. The results obtained were then analysis using Analysis of Variance. The results of the treatment which showed a real or significant difference were then carried out a follow-up test using the Duncan's Multiple Range Test with a level of 5%. The HSP treatment at a dose of 100 kg/ha showed a significant effect on the parameters of plant height aged 60 DAP (91.33 cm), the weight of dry grain per plot (2.63 kg), and the HSP treatment at a dose of 50 kg/ha showed a percentage value highest germination rate (90.41%) and growth speed of 13.65%. While the HSP treatment at a dose of 100 kg/ha had a very significant effect on the parameter number of tillers aged 60 DAP (33.78 tillers), production per hectare (11.71 tons) and at a dose of 50 kg/ha on the parameter number of productive tillers (25 .27 tillers) of rice (*Oryza sativa L.*) Variety IR 64. The SP-36 treatment at a dose of 200 kg/ha showed a significant effect on the parameters of the number of grain per panicle (129.59 grains) and the number of rice grain per panicle (107. 80 heads) of rice (*Oryza sativa L.*) Variety IR 64. The interaction between HSP and SP-36 fertilizer on rice (*Oryza sativa L.*) Variety IR 64 had no significant effect on all parameters. Furthermore, parameters that show significant or very significant differences are carried out by the DMRT test with a level of 5%.

***Key words:*** *Humic acid, Phosfor, Pady Seed*