

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

Bramanstya

Study Program of Seed Production Technique

Departement of Agricultural Production

ABSTRACT

*Rice plant (*Oryza sativa* L.) is a plant that is widely cultivated in the tropical region. Rice plants produce one type of food where the food contains nutrition and is also able to be a sufficient reinforcement for the human body, because in the rice itself contained materials that are easily converted into energy, therefore rice is also called energy food. This study uses Randomized Block Design with 2 treatments. The first factor is the administration of Humic Acid Super Phosphate (HSP) (A) with 3 treatment levels and the second factor is the administration of SP-36 (P) fertilizer with 3 treatment levels. Each treatment was repeated 3 times, so there were 27 experimental units. The results of this study were based on the results of the analysis and discussion of the Humic acid super phosphate treatment at a dose of 200 kg/ha which had a very significant effect on the number of tillers aged 30, 40 and 60 day after planting, having an average of 21.33 tillers, 35.40 tillers and 55.38 tillers. number of productive tillers with an average of 40.78 productive tillers, dry grain weight per plot with an average of 1.61 kg, production per hectare with an average of 6.42 tons/ha, germination rate with an average of 84.33%, and growth rate with an average of 12.97%, and the simultaneous growth with an average of 67.00%. SP-36 treatment at a dose of 200 kg/ha had a significant effect on the number of grain per panicle with an average of 120.39 grains, the number of rice grains per panicle with an average of 90.99 grains, the number of productive tillers at a dose of 150 kg/ha with an average of 38.60 tillers productive, number of tillers aged 30,45,60 dap with an average of 18.88, 32.95, 51.47 tillers, dry grain weight per plot dose of 100 kg/ha with an average of 1.59 kg and production per hectare with an average of 6, 36 tonnes/ha. Furthermore, the observation parameters which showed significant or very significant differences were further tested using the DMRT test with a level of 5%.*

Keywords: rice plant, humic acid super phosphate, phosphate