

**Perbedaan Sistem Tanam Dan Aplikasi Giberelin (GA3) Terhadap Produksi Dan Mutu Benih Padi (*Oryza Sativa L*) Varietas IPB 3S.** *The difference planting system and application of giberelin ( GA3 ) on the production and quality of seed rice ( Oryza sativa L. ) varieties IPB 3S . Advisor: Netty Ermawati and Suwardi.*

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### **ABSTRACT**

*The difference planting system and application of Giberelin ( GA3 ) the production and quality of seed rice ( Oryza sativa L ) varieties IPB 3S. This research was aimed to determine planting system and Giberelin applications in order to increae the yield and quality of Rice Production. The experiment was conducted in state Polytechnic of Jember from August to December, 2016. Using Randomized Block Design (RBD) with 2 factors and 4 replications. The First factor was planting system consist of “tabela” and “tapin” and second factor was Giberelin aplication consist of without aplications (G0) once aplication (G1) Twice aplications (G2) and three aplications (G3). The result showed that treatment planting system has a very significant effect to the tillers productive , long of panicles , the amount of grain panicles , the amount of grain and tillers. and weighing 100 grains of seed. Giberelin treatment has a very significant effect to the tillers productive ,seed germination and has a significant effect to the hight plant generative phase ,potential each hektare and yield per hektare. Treatment once aplication of GA (G1) was showed the best result in potential yield per hektare by 12.5 ton/ha and germination capacity of seed by 83.5 %.*

**Keywords:** *Giberelin, Planting System, Production and Seed Quality*