

APLIKASI PGPR (*Plant Growth Promoting Rhizobacteria*) DAN JAJAR LEGOWO TERHADAP PRODUKSI DAN UJI MUTU BENIH PADI (*Oryza sativa L.*) DENGAN METODE SRI (*System of Rice Intensification*). Application PGPR (*Plant Growth Promoting Rhizobacteria*) and Spacing Consisted of Legowo for Seed Production and Quaity of Rice Testing (*Oryza sativa L.*) With SRI (*System of Rice Intensification*). Advisor: **Mochamat Bintoro and Titien Suhermietin.**

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ABSTRACT

*PGPR application and optimal spacing is one of the methods to increase seed production and rice quality (*Oryza sativa L.*) by using SRI (*System of Rice Intensification*). This research was held 4 months (August to November 2015) at Jl Bungor Street, Darwo Timur, Gebang, Jember using Randomized Block Design (RBD) with 2 factors and 3 replications. First factor is PGPR consist of legowo 2:1, legowo 3:1, and legowo 4:1. The results showed that PGPR applications didn't have significant effect to all parameters, Significant effect was on plant grow up very high in 35 days. Spacing Consist of legowo didn't showed significant effect, but the speed sprouted seeds showed significant effect. As a result both of those applicatios showed on 100 of grain seeds a significant effect.*

Keywords: PGPR, Spacing Consist of Legowo, Production and Seed Quality