

**Pengaruh Waktu Pemberian Dan Dosis Mikoriza Arbuskula (Sebagai Pupuk Tambahan) Terhadap Produksi Dan Mutu Benih Padi (*Oryza sativa L.*) Varietas IPB-3S. Effect Time Application and Dose Of Mikoriza to Production and Seed Quality Of Pady (*Oryza sativa L.*) IPB-3S Variety**

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**ABSTRACT**

*The majority of indonesia's population depended in rice as their primary need, its availability must be increased in line with the increasing of population in indonesia. One of the methods be used to increase pady production is mikoriza arbuskula. The purpose of this research to push vegetative or generative growing. This study was conducted for 4 month starting from September untill December 2016, in a field at Rambipuji Jember by used Randomized Block Design (RBD) factorial with two factor. The first factor is time application of mikoriza (W) with 3 level consisted is Seedling phase, Vegetative phase, and generative phase. Second factor is dose of Mikoriza (D) with 3 level consisted 15 kg/ha, 30 kg/ha, 45 kg/ha. The result of this research showed treatment time application micoriza give a very significant effect (\*\*) productive sapling amount parameter, grain total each panicles, total grain pithy each panicles, and production each hectare. The treatment total dose of mikoriza has a significant effect (\*) to sapling amount vegetative phase parameter, and has a very significant effect (\*\*) productive sapling amount parameter, total grain each panicles, total grain pithy each panicles, and production each hectare. Has a interaction between treatment time application with dose mikoriza give a significant effect to productive sapling amount, production each hectare, and very significant effect to total grain each panicles parameter and total grain pithy each panicles.*

**Key words** : Production and seed quality, time application, dose of mikoriza arbuskula