

Aplikasi Teknologi Siplo Terhadap Produksi Dan Mutu Beberapa Varietas Benih Padi (*Oryza sativa* L.) Dengan Penambahan Pupuk Organik Cair. *Siplo Technology Application on Production and Quality Several Varieties of Rice Seed (*Oryza sativa* L.) With the addition of Liquid Organic Fertilizer.* Advisor: Ir. Sri Rahayu, MP and Ir. N. Bambang Eko S, M.Si

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ABSTRACT

*Rice (*Oryza sativa* L.) is a staple food source of most of the world. Thus, the availability of rice will have to be maintained and continuously improved in line with the increasing population. The addition of liquid organic fertilizer Marolis and use several varieties of rice (*Oryza sativa* L.) with the application of the system of local potential intensification (SIPLO) is expected to spur growth and increase production. This research was carried out for 4 months, starting in November - February 2016 at research land, Village Cindogo - Tapen, Bondowoso, East Java and Seed Technology Laboratory State Polytechnic of Jember. This study used a factorial Randomized Bloxk Design (RBD) with 2 factors and 4 replications. The first factor was Marolis liquid organic fertilizer consisting of liquid organic fertilizers without addition Marolis and the addition of liquid organic fertilizer Marolis. The second factor was the using of some rice varieties consist of Gorontalo Variety, Towuti Variety and Situbagendit Variety. The results of the study showed that the treatment of liquid organic fertilizer was a very significant effect (**) to the parameters, number of tillers 45 HST, the number of productive tillers, number of grains each panicle, number of grains each panicle pithy, the percentage of empty grains, 1000 grain weight and production per hectare. Treatment varieties of rice was highly significant (**) to the parameters, the height of the plants 45 days after planting, plant height before harvest, panicle length, number of grains each panicle, number of grains each panicle pithy, and the percentage of empty grain production each hectare. The interaction of liquid organic fertilizer Marolis and varieties effect was not significant (ns) on all parameters.*

Keywords: *Organic Liquid Fertilizer Marolis, some rice varieties, Siplo, Production and Seed Quality*