Karakterisasi Pertumbuhan Dan Produksi Benih Padi Lokal (*Oryza sativa L.*) Sebagai Plasma Nutfah. (*The Characterization of Local Rice Seed Growth and Production as Germplasm). Supervised by*** : Dwi Rahmawati, SP, MP

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ABSTRACT

Germplasm must be develop to conserve local varieties of rice as a gen banks for plant breeding interests that can produce superior rice seed. This research aims to determine vegetative, generative character and ability that can be produced by one or more of the results of crossing local rice varieties and some white rice. This research was conducted in September 2018 to April 2019 at Screen house and Seed Processing Laboratory of State Polytechnic of Jember. This research had used Random Block Design Non Factorial (RAK Non Factorial) with 1 factor and 5 replications. The levels were Landak Varieties (V1), Inpari24 Varieties (V2), Sintanur Varieties (V3), Sidenuk Varieties (V4) and Ciherang Varieties (V5). The result was analyzed by using F test (ANOVA) and followed by BNJ 5%. The result of this research shows that height of plant in vegetative phase is non significant (ns) and number of sapling is significant (**). The generative character is significant (**) on parameter height of plant in generative phase, flowering age, number of productive sapling, length of panicle, length of flag leaf, harvest age, number of seed per panicle, number of filled out seed per panicle, production per hectare and production potential. The Seed quality tests are significant on viability (**), simultaneously growth, weight of 1000 seeds and growth speed is non signification (ns) and the result crossing of local rice and several white rice that is Sintanur Varieties and Landak Varieties (9 seed), Ciherang Varieties and Landak Varieties (1 seed), Sintanur Varieties and Inpari24 Varieties (1 seed), and Inpari24 Varieties and Landak Varieties (3 seed).

Key words *: Characterization, Local Rice, Germplasm*