Uji Keunggulan Tanaman Kacang Panjang (*Vigna sinensis L.*) Calon Varietas OT 227 Dengan Tiga Varietas Pembanding. *Advantage Test of OT 227 Candidate Variety (Vigna sinensis L.) Long Beans Plant With Three Comparative Varieties.* Dr. Ir. Nantil Bambang Eko S., M.Si. (Pembimbing). Oktavianus Wawan Dwi S., S.P (Pendamping).

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ABSTRACT

The limited availability of superior local seeds is one factor that causes the need for long beans in Indonesia is not fulfilled. The work of producing long bean plants cannot meet the growing consumption needs of people every year, so we need to increase long bean production. One effort to overcome this problem is to test the superiority of superior local varieties. We conducted this excellence test to meet the requirements to release superior local varieties so we can meet the needs of long beans in Indonesia and farmers can grow superior bean seeds. We researched on July 2019-September 2019 at PT. Wira Agro Nusantara Sejahtera, Pare Kediri. This study used a non-factorial randomized block design with 1 candidate variety and 3 comparative varieties comprising OT 227 variety, Super Puspita variety, Parade variety, and we repeated the Impala variety 4 times. We analyze the data using analysis of variance (ANOVA) and we will continue if there is a significant effect with the smallest actual difference test (LSD) of 5%. Data shows that candidates for OT 227 variety have 2 advantages and 3 special characteristics compared to the three comparative varieties. There are 3 special characteristics including crown color, old seed color, petal color, and 2 advantages where production reaches 27.50 Tons per hectare, age of bloom faster is IE 36 HST. Based on the number of advantages among the three comparison varieties, OT 227 candidates are eligible to be certified to get a seed number certificate by the Ministry of Agriculture.

Key words : *Long Beans, Variety Release, Superiority Test*