

**PENGARUH JARAK TANAM DAN JUMLAH BUAH TERHADAP
PRODUKSI DAN MUTU BENIH TANAMAN PARIJA (*Momordica
charantia L.*)**

*(The Influence of Plant Spacing and Fruit Restriction on the
Production and Quality Seed of Bitter Gourd (*Momordica
charantia L.*))*

Supervised by Dr. Ir. Rahmat Ali Syaban, M.Si

Achmad Tri Bagus Pamungkas
Study Program of Seed Production Technique
Department of Agricultural Production
Program Studi Teknik Produksi Benih
Jurusan Produksi Benih

ABSTRACT

*Bitter gourd (*Momordica charantia L.*), also known as bitter cherry, Chinese cherry, or bitter melon in English, is a climbing plant native to tropical and subtropical regions of Asia. This study aimed to determine the influence of plant spacing and fruit restriction on the improvement of production and seed quality of bitter gourd plants. The research was conducted from October 2023 to January 2024, located in a field at Jalan Tawangmangu No. 137, Krajan Barat District, Antirogo Village, Summersari Sub-district, Jember Regency, East Java 68121. The experimental design used in this study was a Factorial Randomized Complete Block Design (RCBD) consisting of 2 factors and repeated 3 times. The first factor was Plant Spacing (J) application consisting of spacing of 50 cm x 60 cm (J1), 55 cm x 60 cm (J2), and 60 cm x 60 cm (J3). The second factor was Fruit Restriction (B) consisting of 6 fruits (B1), 7 fruits (B2), and 8 fruits (B3). The data obtained were then analyzed using ANOVA (Analysis of Variance) and further tested using DMRT (Duncan's Multiple Range Test) at the 5% level of significance. The results of this study showed that the interaction of Plant Spacing 60 cm x 60 cm and 7 fruits (J3B2) significantly influenced the parameters of seed quantity per fruit, seed weight per plant, seed production per hectare, and significantly affected the parameters of 1000-seed weight and germination test.*

Keywords: Bitter Gourd Seed Production, Plant Spacing, Fruit Restriction