

**APLIKASI PUPUK KNO<sub>3</sub> DAN PENGATURAN JARAK TANAM TERHADAP PRODUKSI DAN MUTU BENIH PARIJA (*Momordica charantia* L) KODE PA0403**  
*(Application Of Kno<sub>3</sub> Fertilizer And Setting Of Planting Spacing On Production And Quality Of Bitter Melon (*Momordica charantia* L) Seeds Code PA0403)* Dr. Ir. Rahmat Ali Syaban, M.Si, Dr. Ir. Nantil Bambang Eko Sulistyono, M.Si

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### ***ABSTRACK***

*Bitter melon (*Momordica charantia* L.) is a horticultural commodity widely consumed by the public. The purpose of this study was to determine the effect of the interaction of KNO<sub>3</sub> fertilizer application and plant spacing on the production and quality of bitter melon (*Momordica charantia* L.) seeds. This study was conducted from June 12 to October 12, 2025 using a Factorial Randomized Block Design (RAK) Method with two factors, namely KNO<sub>3</sub> fertilizer and plant spacing. The first treatment, the application of KNO<sub>3</sub> fertilizer with three levels, namely 200 kg/ha, 250 kg/ha and 300 kg/ha. And the second treatment used plant spacing with three levels, namely 60cm x 40cm, 60cm x 50cm and 60cm x 60cm. The data obtained were analyzed using the Analysis of Variance (ANOVA) test and further tested using DMRT 5% (Duncan Multiple Range Test). The parameters observed in this study include fruit length, number of flowers, number of fruits, number of seeds per fruit, seed weight per fruit, seed weight per plant, seed weight per plot, seed production per hectare, 1000 grain weight, germination, growth rate, and growth synchrony. The results of this study indicate that the KNO<sub>3</sub> fertilizer dose of 200 kg/ha and 250 kg/ha gave a significant difference in the parameters of number of flowers, number of fruits per plant, seed weight per plant, number of seeds per fruit, seed weight per plot, and seed production per hectare. As well as the planting distance at the J2 planting distance (60cm x 50cm) gave a significant difference in the parameters of seed weight per plot, seed production per hectare, and 1000 grain weight and the interaction of the two treatments gave a significant effect on the parameters of seed weight per plot, seed production per hectare, and 1000 grain weight.*

***Keywords:*** KNO<sub>3</sub> Fertilizer, Planting Distance, Bitter Melon Seed Production