Aplikasi Pupuk Organik Cair Dan Variasi Jarak Tanam Terhadap Produksi Dan Mutu Benih Paria (*Momordica charantia* L.) *(The Application Of Liquid Organic Fertilizer And Planting Distance Variations On The Yield And Quality Of Bitter Melon Seeds (Momordica charantia L.) Supervised by* **Ir. Dwi Rahmawati, S.P., M.P. IPM**

Fajar Nur Ramadhan
Study Program of Seed Production Technique
Departement of Agricultural Production
Program Studi Teknik Produksi Benih
Jurusan Produksi Pertanian

ABSTRACT

This study aims to evaluate the effect of liquid organic fertilizer (LOF) application and planting distance variations on the yield and quality of bitter melon seeds (Momordica charantia L.). The research employed a Randomized Block Design (RBD) factorial with two factors: LOF application (4 ml/L, 8 ml/L, and 12 ml/L) and planting distances (30 cm x 60 cm, 40 cm x 60 cm, and 50 cm x 60 cm), replicated three times. The results showed that LOF application at 4 ml/L (P1) provided the best outcomes for parameters such as flowering time, harvesting time, fruit weight per plant, seed production per hectare, and seedling uniformity. The planting distance of 50 cm x 60 cm (J3) significantly affected seed weight per plant and the number of seeds per plant. The interaction between LOF application at 4 ml/L (P1) and planting distance of 50 cm x 60 cm (J3) resulted in the best seedling uniformity. This study concludes that combining LOF application at 4 ml/L with a planting distance of 50 cm x 60 cm optimizes the yield and quality of bitter melon seeds.

Keywords*: Bitter melon (Momordica charantia L.), liquid organic fertilizer, planting distance, yield, seed quality*