

**Aplikasi Pemupukan MKP Dan Pemangkasan Pucuk Terhadap Produksi Dan Mutu Benih Paria (*Momordica charantia* L.) Kelas Dasar (Foundation Seed)** (Application of MKP Fertilization and Shoot Pruning on the Production and Quality of Basic Class Paria (*Momordica charantia* L.) Seeds (Foundation Seed))  
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### ***ABSTRACT***

*Bitter melon (*Momordica charantia* L.) is a plant that is widely cultivated in Indonesia as a vegetable because it contains many benefits in it. This study aims to determine the effect of the interaction of MKP fertilization treatment and shoot pruning on the production and quality of basic grade bitter melon (*Momordica charantia* L.) seeds (Foundation seed). This study was conducted in July - November 2025 at Airlangga Street Agricultural Land, Rowotamtu Village, Rambipuji District, Jember Regency, East Java and the Seed Production Engineering Laboratory, Jember State Polytechnic. This study used a randomized factorial design (RAKF) consisting of 2 factors. The first factor is MKP Fertilization: concentration of 5 g / l (M1), concentration of 7 g / l (M2), concentration of 9 g / l (M3). The second factor is Shoot Pruning: 12th internode (P1), 16th internode (P2), 20th internode (P3). The data obtained were analyzed using Anova and further tested with DMRT 5% (Duncan Multiple Range Test). The results showed that the MKP M3 fertilization treatment (MKP fertilization with a concentration of 9 g/l) provided the best results for the parameters of the number of seeds per fruit of 28.80 grains, the number of seeds per fruit of 26.45 grains, the weight of seeds per fruit of 5.65 grams, the weight of seeds per plant of 22.63 grams, the weight of seeds per bed of 223.78 grams, seed production per hectare of 372,96 kg/ha and the weight of 1000 grains of 214.21 grams. The P1 shoot pruning treatment (Pruning of the 12th node shoots) provided the best average results for the parameters of the weight of seeds per fruit of 5.49 grams, the weight of seeds per bed of 212.14 grams, and the parameters of seed production per hectare with an average of 353,56 kg/ha. The interaction of MKP fertilization and shoot pruning showed no significant difference (ns) for all parameters.*

**Keywords:** *Bitter melon, Seed production, MKP fertilization, Pruning shoots*