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**Flowering and fruiting in Cape gooseberry (*Physalis peruviana* L.)**

**as influenced by organic manures and spacing**

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**ABSTRACT**

*A field experiment was conducted to study the performance of flowering and fruiting in Cape gooseberry (Physalis peruviana* L*.) as influenced by organic manures and spacing at Horticulture Research Farm, Department of Horticulture, Babasaheb Bhimrao Ambedkar University, Lucknow, U.P. India during winter season in 2014-2015. The experiment was laid out in a factorial RBD where treatments consisted of two factors:(A) source of organic manures: farmyard manure (F1, F2) and vermicompost (V1, V2) each applied at full and half dose and (B) plants planted at two spacings: 80×75cm (S1) and 60×75cm(S2). The results revealed that manurial treatments had a significant effect and among those applied in the present study, vermicompost had a superior effect on maximizing plant height (45.68cm), number of branches (9.51), number of buds (31.57) number of flowers (30.86), number of fruits (29.94), fruit yield (152.93 kg/ha) fruit length (26.32mm), fruit width (25.78mm), fruit weight (25.10g), fruit volume (24.47ml), specific gravity (1.04g/ml), TSS (13.240Brix) and acidity (1.13). Since, the second factor i.e. plant spacing (60 cm x 75 cm and 80 cm x 75 cm) and their interaction did not show any significant effect on the performance of flowering and fruiting in cape gooseberry, the closer spacing (60×75cm) along with application of vermicompost may be suggested for good crop yield of cape goose berry for Lucknow condition.*

***Keyword:*** *Cape gooseberry, Physalis peruviana, Farmyard Manure, vermicompost*, *spacing*