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EFFECT OF BIO STIMULANTS ON GROWTH AND HERBAGE YIELD OF FENUGREEK VAR. CO 1

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ABSTRACT

An experiment was conducted to study the effect of biostimulants on plant growth, herbage yield, quality and cost economics in fenugreek variety CO 1. The experiment was conducted in a Randomized Block Design (RBD). Foliar spray of Panchagavya (3 %, 6 %) %), Vermiwash (3 %, 6 %), TNAU Pulse wonder (2 %, 4 %), and Humic acid (0.2 %, 0.4 %) were used as treatments. Among the various treatments used, treatment T_2 – Panchagavya 6 % showed better results in growth parameters such as Plant height (32 cm), Number of leaves (23.33), Number of branches (8.33) and Dry matter content (1.01 g), root parameters like Number of roots (7), Root length (13.76 cm), Number of Nodules (21.66), chlorophyll a, b and (2.65 mg/g, 1.13 mg/g and 3.11 mg/g), maximum herbage yield of 5.5 kg plot^{-1} with an estimated yield of about 6.11 t per hectare followed by the treatment T_4 with 6 % vermiwash and the least values were observed in Control T_9. Findings from the present study reveal that foliar spray of 6 % Panchagavya at 20 DAS in fenugreek variety CO 1 will enhance the growth and herbage yield.

***KEYWORDS**: Fenugreek, Herbage Yield, Panchagavya, Vermiwash*

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