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RESEARCH PAPER

Studies on effect of different organic manures and biofertilizers on plant growth and seed yield of fenugreek (*Trigonella foenum-graecum* L.) cv. Hisar Suvarna

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Abstract : A field experiment was laid out to study the effect of different organic manures and biofertilizers on plant growth, yield attributing characters and yield of fenugreek during *Rabi* season, 2020-21 at Horticulture farm, Kulbhaskar Ashram Post Graduate College Prayagraj. The result revealed the superiority of nitrogen through 3.5 t ha^{-1} Vermicompost + *Rhizobium* + PSB brought significant improvements in various growth parameter *viz.,* plant height maximum (15.23,35.50 and 60.50cm.) at 30 DAS, 60 DAS, and at harvest, respectively and number of primary branches per plant (5.80 and 13.25) at 60 DAS and at harvest in (T_5) and DAS to 50% flowering (81.65 days) early flowering (T_4) where application of 5.5 t ha^{-1} FYM + *Rhizobium* seed treatment + PSB. These yield attributing character were also found to vary significantly *viz.,* number of pod per plant (32.00), pod length (12.57cm), number of seed per pod (12.00),test weight of seed (12.70 g) in data presented table (2), seed and straw yield kg per ha (1566.79,2332.53 kg) in table (3) significantly increased with application of 3.5 t ha^{-1} Vermicompost + *Rhizobium* + PSB in (T_5).

Key Words : Fenugreek, Growth, Seed yield, Organic manures, Biofertilizers

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