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Growth and yield of pigeonpea as affected by organic and inorganic fertilization

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ABSTRACT: A field experiment was conducted on PKV-TARA pigeonpea during the *Kharif* season of 2009-10 at Pulse Research Unit, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola to study the effect of integrated nutrient management in pigeonpea with an object to optimize the fertilizer dose for getting maximum yield per hectare and the effect of FYM and biofertilizer on growth and yield of pigeonpea. Growth and yield attributes were significantly increased due to the increased level of fertilizer. Incorporation of FYM @ 5 t. ha⁻¹ significantly increased the yield parameters like shelling per cent, 100 seed weight and grain yield. Number of pods plant⁻¹, number of grains pod⁻¹, weight of grains plant⁻¹ and stalk yield were more in seed inoculation of *Rhizobium* + PSB + PGPR.

Key Words : FYM, *Rhizobium*, PSB, PGPR, Nitrogen, Phosphorus, Potassium, Sulphur

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