

PRODUCTION POTENTIAL AND ENERGETICS OF MUNGBEAN (*PHASEOLUS AUREUS ROXB.*) AS INFLUENCED BY DIFFERENT CULTIVARS AND NUTRIENT MANAGEMENT

Nilesh Rao ¹, Manish Kumar Singh ², S.N. Khajanji ³ and Priyanka Singh ⁴

^{1,2,3} Deptt. of Agronomy, I.G.K.V.V., Raipur, Chhattisgarh - 492 006

⁴ S.O.S. in Chemistry, Pt. R.S.U., Raipur, Chhattisgarh - 492 010

* Corresponding author Email : khajanji.sn@gmail.com

Abstract : The present experiment was carried out during *kharif* season of 2010 at the Instructional cum Research Farm (*Bharri*), IGKV, Raipur (C.G) on clayey (*Vertisols*) soil. The experiment was laid out as factorial randomized block design with three replications. The results revealed that various growth parameters and yield attributing characters were highest with the application of 100% RDF + FYM 5 t ha⁻¹ + DAP 2% foliar spray twice at flowering and at 15 days interval + PSB + NAA 40 ppm foliar spray at 30 and 40 DAS (F₇). The highest energy output and output: input ratio were also recorded under the application of 100% RDF + FYM 5 t ha⁻¹ + DAP 2% foliar spray twice at flowering and at 15 days interval + PSB + NAA 40 ppm foliar spray at 30 and 40 DAS (F₇).

Keywords: Energetic, Mungbean, Nutrient management, Production potential, Yield attributes

REFERENCES

Ahmad, R., Ikraam, M., Ullah, E. and Mahmood, A. (2003). Influence of different fertilizer levels on the growth and productivity of three mungbean (*Vigna radiata* L.) cultivars. *International Journal of Agriculture & Biology* **5** (3): 335-338.

Anonymous, (2007). *Agronomy Digest* **6 & 7**: pp. 21-24.

Bhaskar, G.P. (2005). Performance of high yielding varieties of mungbean under different dates of sowing in *Vertisols* of C.G. plains. IGKVV, Raipur.

Donald (1962). In Search of yield. *Journal of Australia Agricultural Sciences*. **28**: 171-178.

Ghosh, M.K. and Joseph, S.A. (2008). Influence of Biofertilizer, foliar application of DAP and sulphur sources on yield and yield attributes of greengram. *Legume Research* **31** (3): 232-233.

Ram, S.N. and Dixit, R.S. (2001). Growth, yield attributing parameters and quality of summer greengram (*Vigna radiata* L. Wilczek) as influenced by date of sowing and phosphorus. *Indian Journal of Agricultural Research* **35** (4): 275-277.

Sarkar, R.K., Malik, G.C. and Pal, P.K. (2004). Effect of intercropping lentil (*Lens culinaris*) and linseed (*Linum usitatissimum*) under varying plant density and row arrangement on productivity and advantages in system under rainfed upland. *Indian Journal of Agronomy* **49** (4): 241-243.