

Effect of Nitrogen and Phosphorus on Growth and Yield of Clusterbean (*Cyamopsis tetragonoloba* (L.) Taubert) in Sandy Loam Soils of Andhra Pradesh

K Priyanka, E Narayana, B Venkateswarulu, G V Lakshmi
Department of Agronomy, Agricultural College, Bapatla – 522101

ABSTRACT

A field experiment was conducted during *kharif* 2013 at Agricultural College, Bapatla to study the effect of nitrogen and phosphorus on growth and yield of clusterbean. The experiment was laid out in Randomized block design with factorial concept, replicated thrice with four nitrogen levels *viz.*, N₁-*Rhizobium* inoculation alone, N₂- 20 kg N ha⁻¹, N₃-20 kg N ha⁻¹ + *Rhizobium*, and N₄-40 kg N ha⁻¹ and three phosphorus levels *viz.*, P₁ – 30 kg P₂O₅ ha⁻¹, P₂ – 60 kg P₂O₅ ha⁻¹, P₃ – 30 kg P₂O₅ ha⁻¹ + PSB. The results showed that nitrogen level of N₃-20 kg N ha⁻¹ + *Rhizobium* and phosphorus level P₃ – 30 kg P₂O₅ ha⁻¹ + PSB significantly influenced growth characters, yield attributes, yield and economics of clusterbean.

Key words : Clusterbean, Growth, Nitrogen, Phosphorus.