

Effect of integrated nutrient management on clusterbean [*Cyamopsis tetragonoloba* (L.) Taub] seed production cv. PUSA NAVBAHAR

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ABSTRACT

A field experiment was conducted during late *Kharif* season of 2006 at Anand to study the effect of integrated nutrient management on growth, seed yield and quality and economics of clusterbean cv. Pusa Navbahar under semi arid conditions of Middle Gujarat. The results revealed that integrated use of inorganic fertilizer, bio-fertilizer and organic manure enhanced the growth and seed yield of clusterbean. Higher yield and yield attributes as well as nutrient uptake and protein content were recorded in the treatment of 100% RDF (25 kg N + 50 kg P₂O₅ ha⁻¹) + FYM @ 10 t ha⁻¹ + seed treatment with *Rhizobium* followed by 100% RDF + Vermicompost @ 2 t ha⁻¹ + seed treatment with *Rhizobium*. Application of FYM @ 10 t ha⁻¹ + *Rhizobium* inoculation integrated with chemical fertilizer (100% RDF) fetched maximum net returns (Rs. 1, 16, 640 ha⁻¹) and BCR (6.21).

Key words :Integrated nutrient management, Clusterbean, F.Y.M., Vermicompost, *Rhizobium*, Seed yield

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