

Effect of Integrated Use of Organic Manures, Bio-fertilizers with Inorganic Nitrogenous Fertilizer on Growth and Yield of Medicinal Coleus (*Coleus forskohlii* Briq.)

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ABSTRACT

A field experiment was conducted on medicinal coleus (*Coleus forskohlii* Briq.) (K-8) at Herbal Garden, Rajendranagar, Hyderabad on a fine loamy, mixed hyperthermic, Typic Haplustept soil during Kharif 2005-06 to study the effect of organic manures (different doses of castor cake, FYM), bio-fertilizers (*Azospirillum*, *Phosphorous Solubilizing Bacteria*) and inorganic nitrogenous fertilizer (different levels). Conjunctive use of 50% RDN (20 kg N ha⁻¹) with organic manures (FYM@2.5 t ha⁻¹ + Castor Cake @ 0.25 t ha⁻¹) and bio-fertilizers (T₁₂) has resulted in the highest fresh tuber yield (121.91 t ha⁻¹), dry tuber yield (21.59 q ha⁻¹) at harvest and dry matter production at different growth stages and at harvest.

Key words : Azospirillum, Castor Cake, FYM, Phosphorous Solubilizing Bacteria