

Effect of Biofertilizer Consortia on Productivity in Rainfed Groundnut

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ABSTRACT

Groundnut (*Arachis hypogea*) is a valuable oilseed crop. In Anantapuram district of Andhra Pradesh, groundnut is the major oilseed crop cultivated during kharif and rabi seasons. A field experiment was carried out at Agricultural Research Station, Ananthapuramu, to study the effect of biofertilizer application of P consortia and K mobilizers as seed treatment which includes the treatments of T₁:Control, T₂: RDF (20-40-40 N-P₂O₅-K₂O kg ha⁻¹), T₃: RDF (20-40-40) + P consortia + K mobilizer, T₄: 50% RDF of P & K (20-20-20) + P consortia + K mobilizer, T₅: 50% RDF P (20-20-40) + P consortia, T₆: 50% RDF of K (20-40-20) + K mobilizer, T₇: STBF + P consortia+ K mobilizer, T₈: P consortia + K mobilizer. Significant groundnut pod yields were recorded during kharif 2020. Treatment with 50% RDP (20-20-40) + P consortia recorded higher pod yield (779 kg ha⁻¹) followed by STBF + P consortia+ K mobilizer.

Keywords: *Biofertilizers, Groundnut pod yield and Phosphorus Solubilizing Bacteria (PSB),*