

Research Article

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Vertical distribution of available macro and micronutrients in soil profiles of Ganapavaram pilot area of Nagarjuna Sagar left canal command area of Andhra Pradesh

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Summary

Studies undertaken to assess the nutrient status of soils of pilot area Ganapavaram of 24 L Minor and Muktheswara Puram Major of Nagarjuna Sagar Project left canal command of Nalgonda district of Andhra Pradesh have been studied. Profile wise nutrient status in soil profiles of pilot area revealed that the soils were low to medium in available nitrogen (94 - 219 kg ha⁻¹), low to high in available phosphorus (4.4 to 45.5 kg ha⁻¹) and low to high in available potassium (98 to 482 kg ha⁻¹). The DTPA extractable available micronutrients Zn, Cu, Mn and Fe ranged from 0.24 to 2.52 mg kg⁻¹, 1.20 to 4.59 mg kg⁻¹, 1.18 to 15.65 mg kg⁻¹ and 1.67 to 49.1 mg kg⁻¹ soil, respectively. Soils were low to medium in available nitrogen, high in available phosphorus and medium to high available potassium in the surface horizons and in case of available micronutrients deficient to sufficient in Zn and sufficient in available Cu, Fe and Mn in the surface layers of the soil profiles.

Key words : Available N, P, K, Available micronutrients

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