

Fertility Status of Soils of Tenali Divison, Guntur District of Andhra Pradesh

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ABSTRACT

The present study was conducted in Tenali revenue division of Guntur district by collecting 114 representative soil samples using GPS. Texturally they were sand, loamy sand, sandy clay loam, sandy clay and clay showing wide variation in texture. The sand, silt and clay content of the soil ranges from 20.6 to 92.0, 3.0 to 15.0 and 4.0 to 65.5 per cent, respectively. The pH (5.6 to 8.5) and EC (0.11 to 9.01 dS m⁻¹) values indicated that soils were found to be medium acid to moderately alkaline and non-saline in nature. The soils of Tenali division were non-calcareous with highest CaCO₃ content of 4.20%. The analyzed samples showing medium in organic carbon and CEC and their ranges from 0.20 to 0.72 per cent and 11.91 to 60.87 cmol (p⁺) kg⁻¹, respectively. Among the exchangeable basic cations, Ca was dominant followed by Mg, K and Na with mean values of 30, 2.35, 2.34 and 0.71 cmol (p⁺) kg⁻¹ soil, respectively.

Key words: Electro-chemical properties, Physical, Physico-chemical.