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Research Article

Estimation of available micronutrients on the basis of correlation between physico-chemical properties of pH, EC, OC and available Fe, Mn, Cu and Zn in Inceptisol of Akaltara block of Janjgir district of Chhattisgarh

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Summary

A systematic study was done of available micronutrient on the basis of correlation between physico-chemical properties of pH, EC, OC and available Fe, Mn, Cu and Zn in *Inceptisol* of Akaltara block of Janjgir district of Chhattisgarh. Soil samples (0-15 cm. depth) were collected from 79 villages in Akaltara block covering 1000 sites (10000 ha) using the GPS such that one sample represents each grid of 10 ha. based soil area represented. The soil pH varied from 4.8 to 6.70 (mean 5.83) and indicated that soils were found to be strongly acidic to neutral in reaction. The electrical conductivity of the soil varied from 0.06 to 0.36 with mean value of 0.12. The soil was low to medium in organic carbon and varied from 0.23 to 0.66 (mean 0.48). The soil pH showed significant and negative correlation with available Fe, Mn, Cu and Zn. Available Mn and Cu showed significant and negative relationship with electrical conductivity of the soils. The available Fe, Mn, Cu and Zn showed significant and positive correlation with organic carbon under the study.

Key words: Inceptisol, Micronutrients, Physico-chemical properties

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