

A Case Study

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Sulphur status and their spatial variability in soil of four block of Raipur district

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Summary

The grid based surface (0-25 cm depth) one hundred ninety eight soil samples from four blocks viz., Dharsiwa (54), Abhanpur (48), Tilda (54) and Arang (42) of Raipur districts, (C.G) were collected using global positioning system (GPS) and were analyzed to assess the status of available sulphur (S) and their relationship with some physico-chemical properties of soil. Results revealed that the available S varied from 16.24 to 80.24 kg ha⁻¹ with an average of 39.90 kg ha⁻¹ in Dharsiwa block. At Abhanpur, the available S varied from 12.07 to 79.80 kg ha⁻¹ with an average of 43.94 kg ha⁻¹. At Tilda, available S varied from 8.68 to 97.22 kg ha⁻¹ with an average of 41.59 kg ha⁻¹ and similarly in Arang block it ranged from 8.96 -98.84 kg ha⁻¹ with a mean value of 38.83 kg ha⁻¹. Among the four blocks the available sulphur status in soil decreased gradually from Abhanpur followed by in Tilda, Dharsiwa and lowest status was found in Arang block. Amongst the soil properties, pH showed negative correlation while organic carbon showed positive correlation ($r = 0.091$) with available S status in soil at Raipur. Soil nutrient index of the Raipur was to be found categorized under high fertility classes for available sulphur.

Key words : Sulphur status, pH, OC, Nutrient index, Variability

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