

Research Article

To analyse the major nutrients (N, P, and K) in black soil of Navagarh block under Janjgir district in Chhattisgarh

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Summary

The study was carried out for testing of soil fertility with respect to available N, P, and K status and its relationship with important physico chemical characteristics in black soil of Navagarh block under Janjgir district of Chhattisgarh. Grid based surface (0-15 cm depth) soil samples were collected using Global positioning system (GPS) from 112 villages and out of total villages, black soil consisting of 47 villages of Navagarh block. The soil samples were analyzed for N, P, K. The soils were low in available N content. It ranged from 88 to 399 kg ha⁻¹ with an average of 265 kg ha⁻¹. The status of available phosphorus varied from 1.52 to 29.33 kg ha⁻¹ with a mean value of 7.34 kg ha⁻¹. The 96.82 % village soil samples from the study area can be classified as low fertility class. Nutrient index values were in low fertility class except one village for N and two villages for P came under medium nutrient index value. The available potassium varied from 101 to 504 kg ha⁻¹ with a mean value of 268 kg ha⁻¹.

Key words : Black soil, Nitrogen, Phosphorus, Potash

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