

**Research Article**

# Study on soil testing of available micro nutrients in black soil of Navagarh block under Janjgir District in Chhattisgarh

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**Summary**

The study was conducted on available micronutrient Fe, Cu, Zn, and Mn 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, 47 villages of Navagarh block have block soil. The soil samples were analyzed for pH, EC, OC, N, P, K, Fe, Mn, Cu, Zn. The available iron, manganese, copper and zinc content ranged from 0.44 to 91.6 mg kg<sup>-1</sup> (mean 23.8 mg kg<sup>-1</sup>), 0.70 to 87.6 mg kg<sup>-1</sup> (mean 27.6 mg kg<sup>-1</sup>), and 0.16 to 28.1 mg kg<sup>-1</sup> (mean 3.23 mg kg<sup>-1</sup>), 0.02 to 6.18 mg kg<sup>-1</sup>, with a mean value of 0.82 mg kg<sup>-1</sup>, respectively in soil of Navagarh block. Most of soil samples were found in sufficient levels of Fe, Mn and Cu but 32.21% soil samples were deficient in Zn content.

**Key words :** Micronutrient, Iron, Copper, Manganese, Zinc

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