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**Research Article**

# Soil fertility status of vegetable and pulses growing area under Marihan block in Vindhyan region of Mirzapur district

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## Summary

The surface (0-15 cm) soil samples by systematic survey were collected from Marihan block where 50 samples were identified from *Alfisols* of Mirzapur district. These soil samples were analyzed for N, P, K, Zn, Fe, Cu, Mn and organic carbon and categorized as low, medium and high as per criteria followed in the soil testing laboratory, indicated an increase in the multi nutrient deficiency especially N, P, K, and cationic micronutrient (Fe, Zn, Mn, and Cu) and decline in soil organic carbon with increasing adoption of intensive cultivation without balanced use of nutrients. Soil was sandy loam to sandy clay loam in texture, pH acidic to slightly alkaline in reaction, low to medium in organic carbon and low in available nitrogen, low to medium in available phosphorus and potassium. Sufficient level of cationic micronutrients (Fe, Mn and Cu) and Zn deficient in some areas was also observed.

**Key words :** Fertility status, Major nutrients, *Alfisol*

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