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Research Article

Evaluation of soil fertility status in *Inceptisol* of Malkharauda block in Janjgir district of Chhattisgarh

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Summary

A Study was undertaken to evaluate the fertility status in *Inceptisols* of Malkharauda block, Janjgir-Champa district, Chhattisgarh during 2011-2012 which covers 110 villages. The geo–referenced surface (0-0.15m) soils samples were systematically collected from village by using global positioning system where 1803 sample identified as Inceptisols which were taken for analysis of macronutrient *i.e.* available nitrogen, phosphorus, potassium and micronutrient *i.e.*DTPA-extractable zinc, copper, iron, manganese content for delineations of the fertility status in relation to salient physico-chemical characteristics and categorized as low, medium and high as per criteria followed in the soil testing laboratory. Its characterized moderate to neutral in soil reaction, soluble salt content comes under safe limit for all crops. The organic carbon level exhibited low to medium. The *Inceptisol* of the area showed low in available N and P, and medium level in available K where micronutrient showed sufficient except Zn. Based upon the co-efficient of correlation between macronutrients and soil properties pH showed positive correlation with macronutrient and negative correlation with micronutrient where organic carbon showed positive correlation with available nitrogen and potassium.

Key words : Fertility status, Micronutrients, Majornutrient, *Inceptisol*

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