

Research Article

To assess the overall fertility status of the Malkharauda block in Janjgir-Champa district of Chattisgarh

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Received : 22.07.2013; Revised : 18.10.2013; Accepted : 24.10.2013

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Summary

Present study was undertaken to assess the fertility status of Malkharauda block in Janjgir-Champa district of Chhattisgarh during 2011-12. For this study sample were taken from 110 villages. The systematic collection of sample in geo-referenced surface (0-15 cm) soils sample from 2640 sites representing *Inceptisols*, *Alfisols* and *Vertisols* using Global Positioning System and mapped on 1:4000 Scale. The samples were analyzed for available macro nutrients *i.e.* nitrogen, phosphorus and potassium content for delineation of the fertility status in relation to salient physico-chemical characteristics. The status of available nitrogen and phosphorus were found to be low. The status of available potassium content was found medium to high. The nutrient index with respect to available nitrogen, phosphorus and potassium were also calculated on village basis. Two categories of soil fertility class *viz.*, low-low-medium (LLM) and low-low-high (LLH) were observed in soils of study area. Most of the soils of study area were characterized in low-low-medium and low-low-high categories.

Key words : Fertility status, Macro nutrients, *Inceptisols*, *Alfisols* and *Vertisols*

How to cite this article : Verma, U.S., Sengar, S.S. and Devdas, Deepika (2013). To assess the overall fertility status of the Malkharauda block in Janjgir-Champa district of Chattisgarh. *Asian J. Soil Sci.*, **8**(2): 390-392.