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Assessment and mapping of some important soil parameters including soil acidity for the state of Jharkhand towards rational land use plan. Agarwal, B. K.; Rakesh Kumar; Shahi, D. K. ; Fertiliser Association of India , New Delhi , India , Indian Journal of Fertilisers , 2010 , Vol. 6 , No. 12 , pp. 140-149

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Soil is one of the most important non-renewable basic resources on the earth surface. Therefore greater attention has been paid through out the world to study the soils, their distribution and extent, behaviour, potentials and problems and their suitability for sustained use for different purposes. GIS is a versatile tool used for integration of soil database and production of a variety of users specific and user-friendly interpretative maps. This further leads to accurately and scientifically interpret and plan some of the aspects like conservation of organic matter, soil reaction (pH) control and management of micro and macro nutrient containing fertiliser for different crops and cropping system. The base map of the districts of Jharkhand were prepared on 1:50,000 scale using Survey of India toposheets. Jharkhand soil of Jharkhand in general, are low to very low in available phosphorus and sulphur, medium in available nitrogen and potassium status and deficient in available boron. Liming and Farm Yard Manure (FYM) addition is one way to neutralize soil acidity and enriching soil organic matter. Application of adequate amount of phosphorus and sulphur fertilization depending upon crop and cropping system. Micronutrient application particularly boron and zinc in areas deficient in these nutrients will help to achieve good crop yield.

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