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HYDROGEOLOGICAL AND GROUNDWATER QUALITY DELINEATION MANASA AREA, NEEMUCH DISTRICT, MADHYA PRADESH, INDIA

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ABSTRACT

Groundwater is one of the major resource of the drinking water in Mansa area, Neemuch District, M.P. In the present study groundwater quality of the 20 groundwater samples collected from entire villages and assessed for their suitability for human consumption. The multiple regression analysis and regression equation indicated that the degraded water quality of Manasa area caused water management plan.

In the present area of investigation, the Physico-chemical of groundwater with respect to the major elements related properties has been determined. The physically related properties such as Total Dissolved Solids (TDS) and Total Hardness (TH) were also determined and chemically the major cations include Ca, Mg, Na, K and anion Cl, So₄, Co₃ and HCo₃. Integrated overlay technique helped to delineate to prepare spatial distribution of groundwater quality for drinking purposes in the study area.

KEYWORDS: Groundwater, Physco-Chemical, Dissolved Solids, Madhya Pradesh