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Hydrogeology and Environmental Geology of Sonar River Basin

By Satyendra Kumar Jain

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The Sonar River is one of the most important rivers of Sagar and Damoh districts of Madhya Pradesh. It is a tributary of the Ken River, which is a major tributary of the Yamuna River. The area under study mainly consists of the northern part of the Indian table landmass of the earth and belongs to Vindhyan Supergroup in Indian Stratigraphy. It is mainly covered by four types of rocks namely, Vindhyan, Lametas, Deccan Trap and recent deposits. Nearly two third of the Sonar River Basin is covered by the Vindhyan group of rocks. Although, the area receives a fair amount of rainfall, the Groundwater Potential had never been high due to surface run-off. The area has shortage of water for domestic as well as irrigation purposes. Contents: 1. INTRODUCTION 1.1 The Sonar river basin, 1.2 Location and extent of the study area, 1.3 Accessibility, 1.4 Selection and significance of the area, 1.5 Previous work, 1.6 Methods of investigation 2. PHYSIOGRAPHY 2.1 Physiography of the study area, 2.2 Slope analysis, 2.3 Superimposed profile, 2.4 Drainage and its significance, 2.5 Longitudinal profile, 2.6 Sonar drainage basin, 2.7 Discussion and Interpretation, 2.8 Role of geology...



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