

Ground Water Scenario in India and Its Management Strategy

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Abstract

Ground water is the most dependable source for meeting the requirements of irrigation, drinking water, industrial and urban sectors of the country. Over the years, increasing dependence on ground water has created an imbalance in its supply and demand leading to several hydrogeological problems like decline in ground water regime, well failure, water quality deterioration and sea water ingress into the coastal aquifers. Thus, there is not only a need to assess the water resource properly but also the urgency for implementing proper management strategy to curb the ill effects of ground water over exploitation. This can be done by proper management of both the supply and demand sides of the available ground water resource. In this paper an account of the ground water occurrence, the development scenario and management strategy have been given. The supply and demand have been described and discussed.

Keywords: Ground water, Aquifer, Phreatic, Replenishable, Artificial Recharge