



Spatial Analysis of Water Supply and Demand in Patna

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Water is one of the most precious natural resources and becomes an important element in the socio-economic development. It is the most important limiting factor for many aspects of daily life. It is essential for drinking, bathing, washing, and a host of other purposes. Demand and supply of water is not constant but varies during the day and according to the seasons. As life has become more complex and technology more sophisticated, the need for water has increased exponentially. Water demand in Patna is rising at an alarming rate. According to census 2001, Patna is the largest populated city of Bihar with 14, 32, 209 people. Therefore demand of water for different purposes has much increased. Water for drinking, personal hygiene and sanitary purposes have high demand as these ensure the health and well being of any society. A sample study has been carried out in Danapur and Boring Canal Road area of Patna in which 50 families have been interviewed with the help of a questionnaire, regarding the spatial variation in the demand and supply of water. It was found that a great number of families in Danapur have been facing problems with regard to supply of water due to their dependency on Public water supply systems, whereas the families in Boring Canal Road hardly faced any problems as majority of them have their own boring systems.

Key words: Resource, Water Supply, Scarcity, Water quality.
