



## Quality of Drinking Water in Patna

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*Quality of drinking water in Patna with a view to determine the extent of its deterioration has been looked into. Attempts have also been made to find the best source of drinking water available to the people. 15 different sites, 3 from each zone (north, south, central, east & west), were randomly selected for sample collection. Further, from each site 3 types of water samples (municipal supply, surface tube well, deepboring) were collected. The collected samples were analysed on a total of 10 physical, chemical and biological parameters. The degree of deterioration in quality of drinking water of the collected samples was compared with the permissible limits of Bureau of Indian Standard (BIS). The various analysis revealed that physical, chemical and biological parameters were well within the permissible limit of BIS, but turbidity of almost 6 resources of the 5 zones exceeded the permissible limit. This suggested that these samples have high content of clay, silt, organic matter, phytoplankton. The quality of drinking water in three areas of central zone areas of Patna is more deteriorated as compared to other zones. The present study also suggested that deeper aquifers, which commonly are used for drinking water supplies, are relatively free from contamination.*

**Keywords:-** *Quality of drinking water; Physical, Chemical and Biological parameters; Coliform test, Turbidity, Deeper aquifers, BIS.*

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