

## **“Physicochemical Analysis of Water from Various Sources and Their Comparative Studies”**

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**Abstract:** *Water is one of the most important of all natural resources known on earth. It is important to all living organisms, most ecological systems, human health, food production and economic development. The safety of drinking water is important for the health. The safety of drinking water is affected by various contaminants which included chemical and microbiological. Such contaminants cause serious health problems.*

*Due to these contaminants quality of the Drinking Water becomes poor. Sometimes such poor quality water causes many diseases in the humans so that quality of the water must be tested for both the chemical as well as for the microbial contaminants. During the study it was found that maximum number of physical and chemical parameter were within the desirable limit, as suggested by WHO (1971) and BIS (1991).*

*The objective of the present research is to provide information on the physicochemical characteristics & detailed ecological studies of Potable water and Lake water (Habitat) in order to discuss it's suitability for human consumption. Physicochemical and bio-chemical aspects of the water have been investigated to assess the quality of water. The variations of the physicochemical properties of water samples directly influence the biotic communities and primary productivity of the water bodies at different areas of Ahmedabad.*

**Keywords:** *Potable water and Lake water, Ahmedabad, Physico-chemical and Investigation, ecological studies, Comparative studies.*

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### **I. Introduction**

Water is one of the most important of all natural resources known on earth. It is important to all living organisms, ecological systems, human health, food production and economic development. The safety of drinking water is important for the health. The safety of drinking water is affected by various contaminants which included chemical and microbiological. Such contaminants cause serious health problems. Due to these contaminants quality of drinking water becomes poor. Sometimes such poor quality water causes many diseases in the humans, so that quality of water must be tested for both the chemical as well as for the microbial contaminants.

The 5 major Application of water are Hydropower, Domestic uses, Irrigation, Industrial uses, Commercial uses. The major water quality parameters considered for the examination in this study are pH, Odour, Colour, Taste, Temperature, Turbidity, Total Dissolved Solids (TDS), Dissolved oxygen (DO), Dissolved carbon dioxide, Metals and Metalloids, Total Hardness, Alkalinity.

#### **1.2 Sample Collection:**

- Potable water sample was collected from five different areas of Ahmedabad: Processed water (Water Plant, S.G. Highway), Thaltej, Navrangpura, Naroda and Shahibaug.
- Habited water sample was collected from four different lakes of Ahmedabad: Kankariya Lake, Malav Lake, Vastrapur Lake, Chandola Lake of Ahmedabad and physicochemical analysis of habited water has performed.

### **II. Material and Methods**

The present study was carried out for five different areas and four different lakes, located in Ahmedabad city. In the present study the sampling was done during morning hours and all water samples were collected in the polyethylene bottles. For lake water sample collection the closed bottle was dipped in the lake at the depth of 0.7 to 0.9 m, and then a bottle was opened inside and was closed again to bring it out at the surface.

The samples were collected from three different points and were mixed together to prepare an integrated sample. From the time of sample collection and to the time of actual analysis, many physical and chemical reactions would change the quality of water sample therefore to minimize this change the sample were preserved soon after the collection. The water samples were preserved by adding chemical preservatives and by lowering the temperature. The water temperature, Odour, Taste, TDS were analyzed immediately on the spot after the collection, Whereas the analyses of remaining parameters were done in the laboratory. The study was carried for a period of four months (january 2012 to april 2012). The collected water samples were brought to the laboratory and relevant analysis was performed. pH was determined using pH meter, and similarly turbidity is

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