

“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.*

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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Table of Contents Physicochemical Analysis Of Water From Various Sources

1. Understanding the eBook Physicochemical Analysis Of Water From Various Sources
 - The Rise of Digital Reading Physicochemical Analysis Of Water From Various Sources
 - Advantages of eBooks Over Traditional Books
2. Identifying Physicochemical Analysis Of Water From Various Sources
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physicochemical Analysis Of Water From Various Sources
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physicochemical Analysis Of Water From Various Sources
 - Personalized Recommendations
 - Physicochemical Analysis Of Water From Various Sources User Reviews and Ratings
 - Physicochemical Analysis Of Water From Various Sources and Bestseller Lists
5. Accessing Physicochemical Analysis Of Water From Various Sources Free and Paid eBooks
 - Physicochemical Analysis Of Water From Various Sources Public Domain eBooks
 - Physicochemical Analysis Of Water From Various Sources eBook Subscription Services

- Physicochemical Analysis Of Water From Various Sources Budget-Friendly Options
- 6. Navigating Physicochemical Analysis Of Water From Various Sources eBook Formats
 - ePub, PDF, MOBI, and More
 - Physicochemical Analysis Of Water From Various Sources Compatibility with Devices
 - Physicochemical Analysis Of Water From Various Sources Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physicochemical Analysis Of Water From Various Sources
 - Highlighting and Note-Taking Physicochemical Analysis Of Water From Various Sources
 - Interactive Elements Physicochemical Analysis Of Water From Various Sources
- 8. Staying Engaged with Physicochemical Analysis Of Water From Various Sources
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physicochemical Analysis Of Water From Various Sources
- 9. Balancing eBooks and Physical Books Physicochemical Analysis Of Water From Various Sources
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physicochemical Analysis Of Water From Various Sources
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physicochemical Analysis Of Water From Various Sources
 - Setting Reading Goals Physicochemical Analysis Of Water From Various Sources
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physicochemical Analysis Of Water From Various Sources
 - Fact-Checking eBook Content of Physicochemical Analysis Of Water From Various Sources
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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