

Study on Physical and Chemical Parameters of Sewage Water Collected from Different Place in Chennai

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Abstract: Sewage water quality is determined by analyzing various physical, chemical, and biological parameters that influence environmental and public health. Physical parameters include temperature, turbidity, and total suspended solids (TSS), which affect water clarity and treatment efficiency. Chemical parameters such as pH, biochemical oxygen demand (BOD), chemical oxygen demand (COD), dissolved oxygen (DO), nutrients (nitrogen and phosphorus), and heavy metals indicate the level of organic and inorganic pollutants. Biological parameters, including bacterial and viral contaminants like coliforms and pathogens, assess the microbial safety of wastewater. Regular monitoring of these parameters is essential for wastewater treatment efficiency, pollution control, and water resource management. Understanding sewage characteristics helps in designing effective treatment processes, reducing environmental contamination, and promoting sustainable water reuse.

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