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Experimental Investigation on Quality Assessment and Pollution Control of Odderpalayam Lake

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Abstract : This paper describes about an experimental investigation conducted to study the behaviour and parameters of lake water and treatment of the lake water sample by Bio Ozolyte Treatment process. Water quality on earth is depleted due to over increasing human development activities that over exploits and affect the quality and quantity of the water resources. The rapid urbanization has resulted in pollution of fresh water bodies due to increase generation of domestic waste, sewage, industrial waste etc. Even where expensive wastewater treatment plants are installed, only a small percentage of the total wastewater volume is treated before discharge resulting in rivers, lakes and aquifers becoming severely contaminated¹. So there is great need to treat waste water. In order to come out with an economically sound and Eco-friendly technology, for the effective waste water treatment we developed a treatment method called BIO-OZOLYTE System, which has high efficiency in removal of BOD, COD, COLOUR and ODOUR without high expenditures and also its nontoxic to the environmental. This system is clubbed with three technologies like Biological method (ECO-BIO BLOCKS), Ozonisation and Anolyte technology. The test results of combined sample for before treatment and after treatment values are compared with standard values sample parameter. These test result shows that dissolved oxygen in water increase and reduce BOD, COD, Odour and Colour.

Keywords : EcoBioBlocks, Anolyte, Ozonification, Ecoli Bacteria, Dissolved oxygen.

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