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**SOME STUDIES ON THE VARIATION OF  
PHYSICO – CHEMICAL PARAMETERS IN  
A SEQUENCE BATCH REACTOR INSTALLED TO TREAT  
FRUIT CANNING EFFLUENT**

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## ABSTRACT

This is a research that on the variation of physico chemical parametres in a Sequence Batch reactor installed to treat fruit canning effluent. At an interval of every two hours, samples are taken and the following parameters are measured and analysed, they are :

1. pH 2. Temperature, 3. Conductivity 4. Total Dissolved Solids (TDS) 5. Dissolved Oxygen (DO) 6. Chemical Oxygen Demand (COD) 7. Concentration of nitrate ions ( $\text{NO}_3^-$ ) 8. Concentration of phosphate ions ( $\text{PO}_4^{3-}$ ) 9. Total phosphorus (P) 10. Total nitrogen (N). Here it is

found that temperature, pH and conductivity do not show any marked differences in values.

It is also observed that while the values of TDS and COD are in the process of decreasing as time goes on, DO increases in values comparetively. While nitrate and phosphate increases with time progression, total nitrogen decreases, however, at the same time, total phosphorus does not show any significant changes in values, that is, it remains approximately at constant value.

