**Optimization of SBR system for sanitary landfill leachate treatment in Egypt**

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| **ABSTRACT**  Solid waste problem is considered one of the most challenging problems that Egypt suffers. Landfill is considered a simple solution to overcome such as problem. Sanitary landfill produces leachate which has bad side effects because it contains difficult decomposition material and bad odors. So, there must be a solution to treat it and dispose it safely. This research presented a solution for leachate treatment using sequential batch reactor “SBR”. The samples were collecting from sanitary land fill of Elhammam city that collects solid waste from Alexandria, samples of leachate ponds were taken in 15 containers of 20 liters which transferred to the workplace in order to apply the experiments on it. The physico-chemical parameters (COD, BOD, TSS, TKN, TP, PH, and NH3-H) achieved high percent removal as (97.9%, 98%, 98.3%, 99.2%, 98.4%, 99.6%) respectively, were done by Egyptian national research center |