

## عنوان مقاله:

The evaluation study on activated sludge process for domestic wastewater treatment in the presence of high total dissolved solids- TDS

## محل انتشار:

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## خلاصه مقاله:

Rapid urbanization and industrialization have increased the requirement of wastewater treatment facilities in today world. The aim of this investigation is to assess the potential use of activated sludge process for domestic wastewater treatment either in present of high total dissolved solids. The studies were undertaken in a continue laboratory scale and analytical data was collected before and after treatment. The results indicate that activated sludge system can tolerate TDS up to 8000 mg/L; although, the reduction in TDS was marginal (19%) at optimum operating condition. The sewage treatment performance for all other parameters is estimated as 86 % Chemical oxygen demand (COD), 91 % Biochemical oxygen demand (BOD<sub>5</sub>), 33 % Total dissolved solids (TDS), 69 % Total suspended solids (TSS), 8 % Chlorides, 89 % Ammonia nitrogen (NH<sub>3</sub>-N) and 58 % Phosphate (PO<sub>4</sub>-P) reduction. Thus, the conventional activated sludge process still has many advantages over all advanced sewage treatment process due to its robustness

## کلمات کلیدی:

Activated sludge process, wastewater treatment, high TDS

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