

Abstract

The present invention relates to a waste water treatment process and system for treatment of waste water utilizing a diatomite treatment agent containing at least about 90 to 99.9% of purified diatomite, and wherein the purified diatomite comprises unbalanced surface charges and is substantially free of counter ions being electrostatically coupled to the unbalanced surface charges. This diatomite treatment agent has posed several advantages in waste water treatment process, particularly acting as a biomass carrier, physical coagulant and adsorbent in the system.

(No suitable figure)