

(54) Title of the invention : A MICROBIAL CONSORTIUM FOR TREATMENT OF INDUSTRIAL WASTEWATER AND A METHOD THEREFOR

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(57) Abstract :

The present disclosure relates to a microbial consortium for treatment of industrial wastewater, and a method therefor. The consortium includes an inoculation of a filamentous fungus, and at least one green microalga deployed into industrial wastewater. The filamentous fungus is *Aspergillus niger* and the microalgae is *Chlorella vulgaris*. Spores of each of the consortium are of size in the range of 1.0E5/L to 1.2E9/L. The consortium further includes nanoparticles/nanomaterials, and/or combinations thereof. The consortium is deployed into industrial wastewater in forms selected from a group consisting of a sachet, a powder, a liquid, a spray, fumes, a gas, and so on.

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