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Patent Search

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Abstract:

TITLE: A PROCESS OF SEWAGE WATER TREATMENT BY THE SEAWEED GRATELOUPIA APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL ABSTRACT The present discloses a process of treating sewage water by the seaweed Grateloupiia filicina. The process of the present invention comprises of following steps; a. subjecting sewage water to be treated to screening chambers by passing through filter nets for removing solid substances and floating objects to form primary treated sewage water; b. subjecting primary treated sewage water to aeration followed by allowing to settle to remove dissolved organic matters, organic debris and particulate materials to form supernatant secondary treated sewage water; c. characterized in mixing the secondary treated sewage water with sea water followed by bioremediation with seaweed Grateloupiia for 30 days to bioaccumulate and remove nitrate, nitrite, phosphate, ammonia and various metals to form tertiary treated sewage water; d. subjecting the tertiary treated sewage water to chlorination for 4 days followed by sedimentation to form hard sludge sediment and supernatant final treated sewage water in which the hard sludge sediment is discarded.

Complete Specification

Description:Form 2

THE PATENT ACT, 1970
(39 of 1970)

&

THE PATENT RULES, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)

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